

# Gifted Education Internet Resources

*For Educators, Parents, Students, Administrators, and  
Policymakers*

► **Portals** ▼ [General](#) ▼ [Math-Science-Technology](#) ▼ [Testing](#)  
▼ [Publishing-Writing-Reading](#)

## ► **Portals**

### [Ohio Association for Gifted Children](#) (OAGC)

Official site of the Ohio Association for Gifted Children. An encyclopedia of [resources](#), [advocacy](#), [Summer Opportunities](#), and more. Sections for coordinators, teachers, parents, and students are a plus. Sign up for [Ohiogift](#), a list to stay current on gifted education across Ohio. Remember: *Important* news about gifted education advocacy, related education proposals in the state legislature, and news about the Ohio Board of Education is [here](#). See official Ohio Department of Education-approved instruments for [assessment](#) of gifted students; the full chart download is [here](#). See [here](#) for performing and visual arts identification. Also see the association blog, [High Ability](#).

### [National Association for Gifted Children](#) (NAGC)

National overview for parents and educators alike. The NAGC mission is to invest its resources to train teachers, encourage parents, and to educate administrators and policymakers on how to develop and support gifted, high-potential children. A visit here reveals excellent resources, hyperlinks, publications, and legislative information. The directory of summer programs is far-reaching. For the official

websites of all NAGC state affiliates for gifted education, go [here](#). For NAGC publications, go [here](#). Also see the [NAGC YouTube Channel](#). A glossary of basic terminology on giftedness is [here](#). (*Resources often require NAGC membership.*)

## **Hoagies' Gifted Education Page**

A comprehensive resource on gifted education — for parents, teachers, administrators and other educators, counselors and psychologists, and gifted young people, as well. Acceleration gets attention through numerous links ([here](#) and [here](#)). Acronyms, terminology, frequently asked questions (FAQs), and other introductory materials for those who are new to the field. Dedicated site-sections for educators and parents are exhaustive. Site includes content of the original ERIC databases. (*See **ERIC** below, in the **General** section.*)

## **Center for Talented Youth, The** (CTY; The Johns Hopkins University)

Summer programs, talent search, distance learning, resources for educators and parents. Counseling, diagnostics, and assessment guidance, including information on giftedness and learning disabilities and underachievement; career direction; services for schools; school advice for parents seeking student coursework credit, guidance, or placement. Extensive hyperlinks, on all facets of giftedness. A bibliography and hyperlinks to additional online reading resources are beneficial. [Imagine](#), a CTY-sponsored, award-winning magazine, offers writing opportunities for gifted and talented students ages 12-18. (*Also see **Imagine** below, in the **Publishing-Writing-Reading** section.*)

## **Belin-Blank Center for Gifted Education and Talent Development** (University of Iowa)

Exemplary service to the worldwide gifted community of students, educators, and families, through advocacy, programming, counseling, news, and research. Grades 4-11 summer and grades 4-12 weekend student programs. Academic talent search via Belin-Blank Exceptional Student Talent Search (BESTS), grades 2-9. Coursework, professional development, endorsement, grant-funded initiatives, and more, for educators of gifted students. Student AP resources are a plus. Sponsors the Scholastic Art and Writing Competition. A download of *A Nation Deceived*, on acceleration, is available. (*Also see **A Nation Empowered** below, in the **General** section.*)

## **Center for Talent Development** (CTD; Northwestern University)

Serving gifted and talented students (age 4 and up through grade 12) and their families, the CTD offers the annual Midwest Academic Talent Search, grades 3-9; LearningLinks distance academics, grades 4-12; and four age-stratified summer

programs, grades pre-K-12. The Civic Education Project, grades 7-12; and the Gifted Education Institute. A sign-up, e-mailed *Talent Newsletter*, and other programs, seminars, and workshops are additional assets. So are the [CTD Blog](#) and the [Gifted Education Blog](#).

## ► **General**

▲ [TOP](#)

### [AASL](#) (*American Association of School Librarians*)

Teaching and learning are the foundation here. Toward those ends, you'll find Best Apps for Teaching & Learning, as well as Best Websites for Teaching & Learning. Innovation, creativity, active participation, and collaboration are central with these free, web-based sites that should benefit the gifted community.

### [Accelerated Schools PLUS](#)

Dedicated to enriched learning for all students, especially those set apart by high poverty, low academics, and remediation, through accelerated instruction and gifted and talented teaching strategies.

### [Acceleration Institute](#)

Dedicated to the study of curricular acceleration for academically talented children, Acceleration Institute has resources for parents, educators, policymakers, and researchers.

### [AEGUS](#) (*Association for the Education of Gifted Underachieving Students*)

Service to twice-exceptional students. Excellent bibliography, hyperlinks.

### [American Association of School Librarians](#)

Educators benefit here with The 2016 Best Websites for Teaching & Learning. The compilation is free and fosters innovation, creativity, active participation, and collaboration. Content areas: Media Sharing, Digital Storytelling, Manage & Organize, Social Networking & Communication, Content Resources, and Curriculum Collaboration.

### [AP Central™](#)

Official and most recent and comprehensive information on Advanced Placement and Pre-AP programs, courses, and exams, as well as singular resources and tools.

### [Apex Learning](#)

AP, other online coursework, including new course offerings and summer programs.

## **ArtsEdge**

The Kennedy Center's free digital resource for teaching and learning about the arts. Find a multitude of **lessons, activities, and projects**, as well as **multimedia resources**. Databases are searchable. *(Materials are not specifically for gifted instruction, but are very suitable.)*

## **Austega's Gifted Services**

Australian and global perspective on giftedness. Authoritative list of resources. For educators and families alike.

## **Belin-Blank Center for Gifted Education and Talent**

### **Development**

*(Also see **Belin-Blank Center for Gifted Education** above, in the ***Portals*** section.)*

## **BertieKingore.com**

Differentiation, achievement, and service to gifted children. Learning materials and articles for parents and educators are downloadable or viewable online. Workshops and presentations include an emphasis on differentiation and tiered classroom centers.

## **Blogs**

Many websites pertaining to gifted education also share information via their blog, YouTube, Facebook, and other social media sites. Be sure to check these resources, too.

## **Brainy-Child**

Self-described as "all about the brainy child," this UK site lists *hundreds* of topics and addresses them authoritatively. Among the topics on the gifted child: characteristics, activities, the under-challenged, parenting, educational issues, ADHD, and learning disabilities.

## **BrightKids@Home**

Resources for families that homeschool bright children.

## **Buckeye On-Line School for Success, The** *(BOSS)*

Online, custom K-12 curricula, and a choice between synchronous and asynchronous modes of delivery. Free, accredited public school.

## **Byrdseed**

Byrdseed helps teachers, parents, and others understand and support or serve gifted learners. Among topics are differentiating lessons, teaching across content areas, and appreciating social and emotional needs of gifted children. Here, math, language arts, creativity, and parent resources are valuable. The link to **Byrdseed.tv**

lists 200-plus videos on reading, math, writing, social studies, art, differentiation, and more; some videos are free.

### **Carol Tomlinson, Dr.**

Differentiating instruction gets its due with educator and researcher Tomlinson. She has authored more than a dozen books on differentiation.

### **Center for Africana Studies** (*University of Pennsylvania*)

African resources, including lesson plans, for K-12 educators. Maps, flags, cultural images, current events. Countries searchable alphabetically.

### **Center for Civic Education, The**

All facets of civic education — including the U.S. Constitution and Bill of Rights; U.S. political traditions and institutions at the federal, state, and local levels; constitutionalism; civic participation; and the rights and responsibilities of citizens — receive attention, including *We the People* programs. The Center administers a range of critically acclaimed curricular, teacher-training, and community-based programs.

### **Center for Creative Learning**

Problem-solving and talent development are keys here.

### **Center for Gifted Education** (*College of William and Mary*)

A primary goal: To provide graduate education programs and opportunities for people interested in teaching gifted students and assuming administrative and leadership positions in the field of gifted education. Curriculum focus. Precollegiate programs.

### **Center for Gifted Education Policy**

The American Psychological Association sponsors this site to generate public awareness, advocacy, clinical applications, and the latest research ideas that will enhance the achievement and performance of gifted and talented students. Information pertains to schooling and parenting, as well as the development of careers. Among the pilot projects: the study of mentorship with students in high school, and research into the value of specialized high schools for scientific research.

### **Center for Talent Development** (*CTD; Northwestern University*)

(Also see *Center for Talent Development* above, in the **Portals** section.)

### **Center for Talented Youth, The** (*CTY; The Johns Hopkins University*)

(Also see *Center for Talented Youth* above, in the **Portals** section.)

### **Class Central**

(Also see *MOOCs* below, in this section.)

## [College Grazing](#)

Get help here searching for the college right for each student.

## [College-NOW](#)

Partnership high school-college engineering program, where high-school students are able to graduate with their high-school diploma and an associate degree from North Central State College, via the College-NOW Engineering Academy. Open to all students in the North Central College Tech Prep Consortium.

## [ConSource](#)

This online library of free, fully indexed United States Constitution sources provides an array of information about that document and its genesis and evolution. ConSource gives U.S. Founders, Reconstructionists, and original Feminists voices in the classroom and courtroom, providing an informed history of the Constitution.

## [Council for Exceptional Children, The](#) (CEC)

The Council for Exceptional Children (CEC) is the largest international professional organization dedicated to improving educational outcomes for people with exceptionalities, students with disabilities, and/or the gifted. CEC advocates for appropriate governmental policies, sets professional standards, provides continual professional development, advocates for newly and historically underserved people with exceptionalities, and helps professionals obtain conditions and resources necessary for effective professional practice.

## [Coursera](#)

(Also see *MOOCs* below, in this section.)

## [Creativity Post, The](#)

Topics on creativity, imagination, and innovation abound. Subsections include education, philosophy, tech, science, arts, and business, among others. Broad influence on giftedness.

## [Davidson Institute](#)

The mission is to nurture the profoundly gifted. This is effected by The Davidson Academy of Nevada, at the University of Nevada, Reno, a public school for middle- and high-school students; the Davidson Young Scholars and the THINK Summer Institute programs; the Educator's Guild; and other outreach, such as the book *Genius Denied* (see *Genius Denied* below, in this section). The database of resources, as with state policies, topics, and articles, is readily searchable.

## [Destination ImagiNation](#)

Problem-solving skill development, to build ingenuity and teamwork in enjoyable, meaningful ways. Teams of five to seven members work over a period of several



weeks to apply critical thinking and their particular talents to solve any of five Team Challenges. Each Challenge has its own educational focus, from Fine Arts to Architectural Design and beyond. Multiple age-groupings, from 4 on up.

### **DiRhody.com**

Information on children who are highly gifted and who have learning disabilities. Author links are solid.

### **Discovery Education**

A gamut of resources — from STEM to clip art — from the cable network. Tremendous number of free resources for teachers, parents, and K-12 students. Teachers will benefit from resources like professional development and lesson plans. Math resources are especially robust.

### **Duke TIP** *(Duke University Talent Identification Program)*

For grades 4-12, with loads of resources for students and teachers. Summer opportunities. The Digest of Gifted Research offers an impressive collection of research-based information on raising and educating the gifted student.

### **ECOT (Electronic Classroom of Tomorrow)**

A tuition-free, online public school for K-12 students throughout Ohio.

### **Education Week**

The gamut of information on K-12 education. Search the substantial archives on “gifted education” to see a host of articles on the topic, [here](#).

### **Educators Guild**

The Educators Guild is a free online community for elementary, secondary, post-secondary educators, and other professionals committed to meeting the unique needs of highly gifted students. From the Davidson Institute.

### **edX**

*(Also see **MOOCs** below, in this section.)*

### **Environmental Education** *EPA – U.S. Environmental Agency*

For K-12 students who need access to homework resources to learn about the environment, and for educators who need lesson plans and project ideas to teach about the environment. Similarly, [Environmental Education \(EE\)](#) is a multi-disciplinary approach to learning about environmental issues that enhances knowledge, builds critical thinking skills. Earth Day news is [here](#). Extensive educator lesson plans, teacher guides, and other resources are [here](#).

### **EPGY** *(Education Program for Gifted Youth; Stanford University)*

*(Also see **GiftedAndTalented.com** [its renamed title] below, in this section.)*

### **ERIC Educational Resources** *(Institute of Education Sciences host site)*

Massive database of more than a million education articles, via the U.S. Department of Education. Searchable by title, author, and key word(s). (*Also see [SearchERIC.org](#) below, in this section; and [Hoagies' Gifted Education Page](#) above, in the [Portals](#) section.*)

### **[Essex, Martin W. School for the Gifted and Talented](#)**

A weeklong summer residential program at Otterbein University for the gifted and talented in grades 11-12. Areas of interest: arts, sciences, and humanities, via seminars, hands-on workshops, and field trips.

▲ [TOP](#)

### **[Exquisite Minds](#)**

The belief here is in the importance of cultivating creativity in bright and gifted children. Sections on prodigies, books, games, apps, curriculum resources. Materials for educators (teaching the twice-exceptional, class size, critical thinking, and many other topics), parents, and students, too. Topical blog posts are thoughtful.

### **[Exworthy Educational Resources](#)**

Exceptional list of hyperlinks on social studies, mathematics, language arts, science, and almost every other discipline. For use by teachers, parents, and students.

### **[Facebook](#)**

Many websites pertaining to gifted education also share information via their blog, YouTube, Facebook, and other social media sites. Be sure to check these resources, too.

### **[Future City Competition™](#)**

Cross-curricular engineering activities for students in grades 6-8 that present engineering challenges that allow participants to offer their vision of a city of the future. Competition embraces problem-solving, teamwork, research and presentation skills, practical mathematics, science applications, and computer skills.

### **[Future Problem Solving Program](#)** (*FPSP International*)

### **[Future Problem Solving Program](#)** (*FPSP Ohio*)

Via creative problem-solving, the FPSP program develops critical-thinking skills in students as it encourages them to develop a vision for the future. FPSP features curricular and co-curricular competitive — as well as non-competitive — activities. Participants range in age from 8 to 18. Some programs offer non-team competition.

▲ [TOP](#)

### **[GATE](#)** (*Michigan State University Gifted and Talented Education*)

Serves students in middle school and high school. Specialties are languages, humanities, forensics, arts, literature, medicine, and STEM-related fields.



## **[Genius Denied](#)**

Book on gifted advocacy. For students, parents, educators, policy-makers, and mentors. (Also see *Davidson Institute for Talent Development*, above, in this section.)

## **[GiftedAndTalented.com](#)**

From Stanford University, this program began as EPGY. K-12 online courses in Mathematics, Language Arts, Science and Computer Programming. Tutor-supported or independent study. Fee-based coursework.

## **[Gifted Development Center](#)**

Focus is on visual-spatial learners, twice-exceptional learners, and the highly gifted. Comprehensive assessment, counseling, tutoring, and telephone consultations. Dr. Linda Silverman, director.

## **[Gifted Education Commons](#)**

Hundreds of free, downloadable, full-length articles on all facets of gifted education are here. (Some are book-length.) Typical topics include *Educating Gifted Students In The Regular Classroom: Efficacy, Attitudes, And Differentiation Of Instruction*, by Daniel William Caldwell; *Teacher Perspectives Regarding Gifted Diverse Students*, by Toni Szymanski, Thomas Shaff; and *The Effects Of An Elementary After-School Enrichment Program On Gifted And Talented Students' Attitudes Toward School*, by Madison Nicole Cunningham.

## **[Gifted Education Resource Institute](#)** (GERI; Purdue University)

Promotes the development of the gifted and talented, and provides services to them and their families. Summer youth residency program. Professional development program. GERI is dedicated to serving twice-exceptional students through programming like Super Saturday, Super Summer, and Summer Residential Camps. The Diversity Initiative for Gifted Students recruits students from underrepresented groups for participation in GERI student programs, and coordinates support services to contribute to their holistic development.

## **[Gifted Homeschoolers Forum](#)**

Great array of resources for families that homeschool their gifted children. Parent resources are welcome.

## **[Gifted Kids Speak](#)**

International study on giftedness, with input and observations from youth about being gifted. This research undertaking parallels a 1980s study that led to *Gifted Children Speak Out*, a 1984 book by **[Jim Delisle, Ph.D.](#)**

## **[Global SchoolNet](#)**

International online education. Students, parents, educators, and others can collaborate on projects.

### **[Glossary of Gifted Education, A](#)** (NAGC)

The A-to-Z of gifted terminology, with a lot of linked content. Especially instructive for those new to the world of gifted education. See also **[Wikipedia Gifted Education](#)**, the extensive Wikipedia site.

▲ **[TOP](#)**

### **[GT World](#)**

E-mail lists for parents and others to join are on gifted; gifted and disabled; gifted and homeschooled; and other niches. A bibliography, an overview of testing, and hyperlinks are among other resources.

### **[High Ability](#)**

High Ability is a blog and information aggregator for parents, guardians, and teachers of high-ability children managed by the Ohio Association of Gifted Children (OAGC) for the benefit of high-ability students in Ohio.

### **[Higher Order Thinking Skills](#)** (HOTS®)

Thinking-skills program established by Dr. Stanley Pogrow for Title I and LD students in grades 4-8. Emphasis on Socratic teaching (dialogue), as opposed to pervasive content remediation.

### **[Hoagies' Gifted Education Page](#)**

(Also see *Hoagies' Gifted Education Page* above, in the *Portals* section.)

### **[Hollingworth Center for Highly Gifted Children](#)**

Full range of teacher and parent resources for the highly gifted. Workshops, bibliography, identification, assessment, and more.

### **[Homeschooling In Ohio - Gifted](#)**

For parents in Ohio who are homeschooling or who are considering homeschooling a gifted child.

### **[Institute for Educational Advancement](#)**

This non-profit organization is dedicated to identifying and supporting talented young people from 2 to 18, to develop their full potential. The organization advances educational practices and policies that are student-centered and that promote academic rigor, high standards, and excellence in the arts and educational innovation.

### **[International Baccalaureate Organization](#)** (IBO)

International scope for active learners. IB programs are for youth ages 3 to 19. Information helps schools become IB-qualified. (*Also see **Ohio Association of IB World Schools**, the Ohio-specific IB site below, in this section.*)

### **Jack Kent Cooke Foundation**

The Jack Kent Cooke Foundation is a private, independent foundation dedicated to advancing the education of exceptionally promising students who have financial need. The Foundation supports exceptional students from elementary school to graduate school through scholarships, grants, direct service, and knowledge creation and dissemination.

### **Jacob K. Javits Fellowships Program**

Provides fellowships to students of superior academic ability — selected on the basis of demonstrated achievement, financial need, and exceptional promise — to undertake study at the doctoral and Master of Fine Arts level in 28 selected fields of arts, humanities, and social sciences. Program is via the U.S. Department of Education.

### **JASON Project**

(*Also see **JASON Learning** [its renamed title] listing below, in the **Math-Science-Technology** section.*)

### **Joseph S. Renzulli, Dr.**

(*Also see **Neag Renzulli Center for Creativity, Gifted Education, and Talent Development** below, in this section.*)

### **Junior State of America (JSA)**

Current events and social, political, and other civics issues of today come into focus with this club for high-school students. Members share opinions in an open setting, and they develop leadership skills by conducting political-awareness activities at school and overnight conventions like the Congress Convention. Local, state, national, and international in scope.

▲ **[TOP](#)**

### **Khan Academy**

Learning exercises and tutorials for grades K on up. **[Math](#)**, **[science](#)**, **[computing](#)**, **[world history](#)**, **[art and humanities](#)**, **[economics and finance](#)**, and **[more](#)** free online classes. Full details on enrollment, participation, and other Khan features, for students, parents, and teachers. Help on preparation for the SAT and other tests is a plus. On YouTube, Khan has more than 5,500 videos on **[education](#)** and more than 1,200 on **[medicine](#)**.

### **Kingore, Bertie**

Differentiation, achievement, and service to gifted children. Learning materials and articles for parents and educators are downloadable or viewable online. Workshops and presentations include an emphasis on differentiation and tiered classroom centers.

### **[Learners Link](#)**

Teacher emphasis, with research-based, hands-on staff development, classroom coaching. Outstanding array of hyperlinks to resources.

### **[Lesson Plans and Resources for Teaching Gifted and Talented Students](#)**

As the title indicates, this site is loaded with lesson plans to educate gifted and talented students. Vast, broad array of subjects is a plus.

### **[Library of Congress Teacher Resources](#)**

The U.S. Library of Congress offers classroom materials and professional development to help teachers effectively use primary sources from the Library's deep, authoritative digital collections in their teaching. Resources are designed to meet state content standards, and the standards of national organizations. The **[Classroom Materials](#)** section of ready-to-use resources was developed by teachers. Other top sections: **[Professional Development](#)**, **[Lesson Plans](#)**, **[Primary Source Sets](#)**, **[Presentations & Activities](#)**, **[Themed Resources](#)**, and **[Collection Connections](#)**. *(The site does not specifically target the gifted community, but materials support the gifted mission.)*

### **[Martin W. Essex School for the Gifted and Talented](#)**

A weeklong summer residential program at Otterbein University for the gifted and talented in grades 11-12. Areas of interest: arts, sciences, and humanities, via seminars, hands-on workshops, and field trips.

### **[Mensa](#)**

Fine resources for parents and teachers of gifted students. The **[recommended reading](#)** section for parents offers scores of suggestions on pertinent topics, such as acceleration, differentiation, creativity, teens, and emotional issues.

### **[Mensa for Kids](#)**

A forum for intellectual exchange. Publishes a free quarterly of student-submitted work, *YM<sup>2</sup> — Young Mensan Magazine*. Also, the site has **[Mind Games](#)**® (dozens of games for national competitions), **[other games](#)**, **[lesson plans](#)**, **[TED news](#)**, **[activities](#)**, the **[Bright! monthly newsletter](#)**, and more.

### **[Midwest Talent Search](#)**

*(Also see **[Center for Talent Development](#)** [its renamed title] above, in the **Portals** section.)*

## MOOCs

Several sites offer information on college-level coursework that is free, open, online, and interactive. For students in high school (and sometimes middle school). The term Massive Open Online Courses (MOOCs) often is used with such studies; otherwise, broad terminology like “open courseware” is used. Among the top listings are [Coursera](#), [edX](#), and [Udacity](#). Others include [OnlineCourses.com](#), [Open Education Consortium](#), [MITOpenCourseWare](#), [OpenCourseWare](#), [Class Central](#), [MERLOT II](#) and [Open Learning Initiative \(OLI\)](#). Several universities and colleges offer their own, separate online coursework; do an internet search to find your institution of choice.

## [NAGC State Affiliates](#)

Official websites of all state gifted education affiliates of the National Association for Gifted Children.

## [NASSP List of Approved Contests, Programs and Activities for Students](#)

High-level student competitions in nearly all disciplines, for use by principals, teachers, parents, and students. Produced annually by the National Association of Secondary School Principals (NASSP). An annual downloadable file of more than 55 pages of approved activities is helpful.

▲ [TOP](#)

## [Nation Deceived, A](#)

(Also see *Nation Empowered, A*, below.)

## [Nation Empowered, A](#)

An update on the pivotal [A Nation Deceived](#), this researched-based study dating from 2015 on acceleration is invaluable.

## [National Association for Gifted Children](#) (NAGC)

(Also see *National Association for Gifted Children* above, in the **Portals** section.)

## [National Association of Special Education Teachers](#)

Great resource for helping to identify overlooked, disabled and/or misidentified gifted and talented students. Teachers and parents alike will be rewarded here. Extensive, linked resources.

## [National Engineers Week Future City Competition™](#)

(Also see *Future City Competition™* [its retitled name] above, in this section.)

## [National Excellence: A Case for Developing America's Talent](#)

Landmark report on educating gifted and talented students.

## [National Geographic Education](#)

National Geographic resources. These are the Bee (see below), maps and geographic materials, lesson plans, geography standards, and other teacher aids.

### **National Geographic Bee**

Thousands of schools annually participate in the National Geographic Bee, using materials prepared by the National Geographic Society. The contest is designed to inspire students to be curious about the world. Schools with students in grades 4-8 are eligible for this competition. Each state Bee is listed [here](#).

### **National History Club** (NHC)

This non-profit organization inspires students and teachers to start History Club chapters at high schools, middle schools, and within other student and community programs. Members of local chapters participate in local and national programs, and create their own projects and activities. The NHC also provides chapters with resources and services that will help them increase the activity and impact of their History Club.

### **National Society for the Gifted & Talented** (NSGT)

The mission of NSGT is to advance the development of gifted, talented, and high-potential youth through opportunities, advocacy, and exemplary programs and practices. Their [blog](#) is wide-ranging and informative.

### **Neag Renzulli Center for Creativity, Gifted Education, and Talent Development**

Dedicated to research on giftedness, with downloadable newsletters for teachers, parents, and others. The mission is to conduct research that is theory-driven, problem-based, practice-relevant, and consumer-oriented. The mission includes the formation of a community of scholars in the field, as well as information dissemination that targets practitioners, parents, policy-makers, and other researchers. Leaders are Dr. Joseph S. Renzulli and Dr. Sally M. Reis, among others. Part of the Neag School of Education at the University of Connecticut.

### **Northwestern University Center for Talent Development**

(Also see *Center for Talent Development* above, in the *Portals* section.)

### **NSGT** (National Society for the Gifted & Talented)

A not-for-profit organization created to honor and nurture gifted and talented children and youth. The blog by Barbara Swicord, Ed.D. is beneficial and comprehensive.

### **Odyssey of the Mind®**

International educational program with problem-solving opportunities for students in four divisions, from kindergarten to college. Emphasis on creativity. Thousands of U.S. teams, and teams from many other nations. Annual four-day World Finals.



## [Ohio Association for Gifted Children](#) (*OAGC*)

Official site of the Ohio Association for Gifted Children. An encyclopedia of information, hyperlinks, resources, advocacy, Summer Opportunities, legislative reportage, and more. (See the *Portals* listing above, for much more.)

## [Ohio Association of IB World Schools](#) (*OAIB*)

Official International Baccalaureate programs for Ohio students ages 3-19. Member schools are listed by region of Ohio. The primary IB site is [here](#).

## [Ohio Center for Law Related Education](#) (*OCLRE*)

The law, civics, and social studies are the foundation of this education program. The Ohio Mock Trial, We the People, and Youth for Justice are among the student proceedings. Every autumn sees a professional development event, the Law and Citizenship Conference. This is for teachers of government, civics, law, and related disciplines to learn about innovative teaching methods, curriculum development, and programs that engage students in hands-on learning.

## [Ohio Department of Education](#) (*Primary website*)

## [Ohio Department of Education](#) (*Gifted education*)

Information on acceleration, identification, and service. Legislative guidelines. See [here](#) for Ohio's officially approved instruments for identification and screening of gifted students.

## [Ohio Public Library Information Network](#) (*OPLIN*)

Extensive Ohio public library materials for all.

## [Ohio Resource Center](#) (*ORC*)

Mathematics, science, reading resources for educators, ambitious parents. ORC enhances teaching and learning by promoting standards-based best practices in mathematics, science, and reading. Peer-reviewed, high-quality, effective resources.

## [Ohio Supercomputer Center Summer Institute](#)

This is a two-week residential program that gives gifted Ohio students entering their sophomore, junior, or senior year project-based, hands-on learning. Keys on collaborative supercomputer usage. Tailored for students proficient in math, science, computers, and/or engineering.

## [Ohio Technology Consortium](#)

Technology issues are key to this site. Sections: [eStudent Services](#) (designed to improve student access to higher education through e-learning and technology-enhanced education); [OhioLINK](#) (Ohio's Academic Library Consortium); [OARnet](#) (provides broadband connectivity to Ohio's K-12 schools through a partnership

with the Ohio Department of Education and its information technology centers and to public schools in large urban areas).

### **[Ohio Virtual Academy](#)** (*OHVA*)

Online K-12 education alternatives. Tuition-free public charter school with high academic standards, rigorous instruction, extensive computer employment.

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## **Open Courseware**

Several sites offer information on college-level coursework that is free, open, online, and interactive. For students in high school (and sometimes middle school). The term Massive Open Online Courses (MOOCs) often is used with such studies; otherwise, broad terminology like “open courseware” is used. Among the top listings are [Coursera](#), [edX](#), and [Udacity](#). Others include [OnlineCourses.com](#), [Open Education Consortium](#), [MITOpenCourseWare](#), [OpenCourseWare](#), [Class Central](#), [MERLOT II](#) and [Open Learning Initiative \(OLI\)](#). Several universities and colleges offer their own, separate online coursework; do an internet search to find your institution of choice.

### **OPLIN** (*Ohio Public Library Information Network*)

The Ohio Public Library Information Network provides information services to Ohio public libraries and ensures all Ohio residents that they will have free public internet access through the numerous local public library systems in the state. Bottom line: Across Ohio, all teachers, students, and others will have access to a full range of materials in public libraries.

### **Peter’s Online Typing Course**

Free online typing lessons and typing/keyboarding exercises for beginning typists and others who want to master this essential of digital life, or to move from two-finger typing to standard touch-typing.

### **Planet Smarty Pants**

An exemplary blog that encourages enthusiastic thinkers through literature, science, art, and more. Book recommendations are especially strong.

### **Pogrow, Stanley**

(Also see *Higher Order Thinking Skills* above, in this section.)

### **Power of the Pen**

(Also see *Power of the Pen* below, in the *Publishing-Writing-Reading* section.)

### **ProProfs Brain Games**

Games for the brain and intellect. Lots of word games. Users also can create games like crosswords, scrambles, and others.

## **[Renzulli, Joseph S., Dr.](#)**

*(Also see **Neag Renzulli Center for Creativity, Gifted Education, and Talent Development** above, in this section.)*

## **[Schultz, Robert Arthur, Dr.](#)**

Gifted curriculum studies, consultation, research, writing, teaching, and more. *(See **Gifted Kids Speak** above, in this section.)*

## **[SearchERIC.org](#)**

This search tool helps to locate needed information listed in the **ERIC®** database of education articles, abstracts, and digests.

## **[SENG](#)** *(Supporting Emotional Needs of the Gifted)*

Seeks to inform the public of the social and emotional needs of the gifted, and to support programs that foster positive awareness.

## **[Share My Lesson](#)**

With nearly a million members, this free site for sharing and using lessons lets you search by subject, state standards, and more. Pre-school through high school. Hundreds of choices result from a search of “**[gifted education](#)**.” Sections on **[professional development](#)** and **[collections](#)** expand horizons.

▲ **[TOP](#)**

## **[Silverman, Linda, Dr.](#)**

*(Also see **Gifted Development Center** above, in this section.)*

## **Social Media**

Many websites pertaining to gifted education also share information via their blog, YouTube, Facebook, and other social media sites. Be sure to check these resources, too.

## **[Special Ed Advocate](#)**

Information on tests, measurements. Legal insights on education rights and service, especially regarding special education. Extensive resources on advocacy, via Advocacy Library and Law Library. See **[here](#)** for Ohio’s officially approved instruments for identification and screening of gifted students.

## **[Special Education Resources on the Internet](#)** *(SERI)*

Categorized information, such as autism, vision impairment, and others, to assist children with special needs.

## **[Stanford Online High School](#)**

Open to all gifted students in grades 7-12, everywhere. Multiple summer offerings. Various enrollment options. The online tour is edifying.

## **[Stanley Pogrow](#)**

(Also see **Higher Order Thinking Skills** above, in this section.)

## **State NAGC Affiliates**

Official websites of all state gifted education affiliates of the National Association for Gifted Children.

## **Summer Institute for the Gifted** (SIG)

Gifted and talented academic summer camps for ages 5-17, at colleges and universities across the United States. Daylong, online, and residential options (some are for ages 9-17).

## **Summer Opportunities** (OAGC)

(Also see **OAGC** above, in the **Portals** section, for the latest list. Other major or portal sites also may have site-sections on summer coursework, workshops, residencies, and other activities.)

## **Summer Scholars Program** (Miami [Ohio] University)

A multiweek summer residential program of university courses and seminars. Open to all in their junior or senior years of high school, among other requirements for the pre-college coursework and activities. Participants typically choose two courses from more than 20 college departments, and earn 6 or 8 credit-hours.

## **Super Saturday Program, The**

Acceleration and enrichment classes held on the University of Cincinnati campus. Classes include science, creative writing, Shakespeare, engineering, theater arts, music, mythology, chess, Latino life, multimedia art, scrapbooking, French, chemistry, CSI, computer-aided design, medieval life, card-making, animals, and newspaper life. Teacher opportunities, as well.

## **Sylvia Rimm, Dr.**

Psychologist, speaker, and columnist on achievement. Author of *See Jane Win*, a report on girls becoming successful women.

## **TAG** (*The Association for the Gifted*)

Advocacy for children and youth with gifts, talents, and/or high potential. TAG is a division of **The Council for Exceptional Children**.

## **TAG** (*Families of the Talented and Gifted*)

Support for gifted education through three mailing lists, TAGFAM (for those with children in traditional schools), TAGMAX (for homeschoolers), and TAGPDQ (for families needing radical educational and social accommodations for their children).

## **TeachersFirst**

Lessons, units, classroom-ready content, and more — this repository of K-12 resources is a collection of original content, internet resources, lesson plans, and

tools drawn from teaching professionals around the world. Searchable by keyword, phrase, subject, grade level, holidays, and dates. Materials are especially suited to differentiated instruction. Parents and students, too, will find challenging, motivating resources to augment the classroom. Puzzles and brain-teasers are a bonus.

### [teachfine on gifted and ed tech](#)

An array of articles on all facets of giftedness. For parents, teachers, and others who nurture the gifted child.

### [Tolan, Stephanie S.](#)

(Also see *Stephanie S. Tolan* below, in the *Publishing-Writing-Reading* section.)

### [Tomlinson, Carol, Dr.](#)

Differentiating instruction gets its due with educator and researcher Tomlinson. She has authored more than a dozen books on differentiation.

### [Udacity](#)

(Also see *MOOCs* above, in this section.)

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### [Ultimate Puzzle Site](#)

Mathematics and non-mathematics brain-teasers, puzzles, tests, riddles, and more. Difficulty levels range from basic to advanced. Twelve categories in all. Many are interactive. Lots of fun here!

### [Uniquely Gifted](#)

Resources for children with special needs, including ADD/ADHD, learning disabilities, Asperger Syndrome (*also called Aspergers or Asperger's*), autism, dyslexia, and hearing impairment. Extensive bibliography for parents and professionals, with recommendation categories of General Information/Overviews, Treatment/Medication, In the Classroom, Special Education Law/Advocacy, Homeschooling, Specific Special Needs, Temperament/Personality, Teenagers, Social Skills/Bullying/Life Skills, College/Career, Autobiography/Biography, Magazines/Newsletters, and others. Books about special needs written for young people and books, for children and adults alike, with special-needs characters are especially pertinent.

### [United States Academic Decathlon® \(USAD\)](#)

Learning and academic excellence through team competition. New topic each year. The Pentathlon competition focuses on *five* areas: Literature, Mathematics, Fine Arts, Science, and Social Science.

### [Visual and Performing Arts Identification](#) (Ohio)

Handbooks with procedures for identifying students who are gifted in the visual and performing arts. Arts specialists, gifted coordinators and all personnel who develop district identification procedures and are involved in the screening and identification of gifted children should read the downloadable handbooks.

### **[Verywell Gifted Kids](#)**

Comprehensive site on topics like diversity, testing, family life, education options, activities and projects, and others.

### **[Warren, Sandra](#)**

*(Also see [ArlieBooks.com](#) below, in the **Publishing-Writing-Reading** section.)*

### **[Wikipedia Gifted Education](#)**

Extensive overview on all facets of giftedness. Global views on implementation in specific countries are insightful. Solid historical background on gifted education.

### **[William & Mary Center for Gifted Education](#)** *(College of William and Mary)*

A primary goal: To provide graduate education programs and opportunities for people interested in teaching gifted students and assuming administrative and leadership positions in the field of gifted education. Curriculum focus. Precollegiate programs.

### **[World Council for Gifted and Talented Children](#)**

A global perspective. The mission is to focus world attention on gifted and talented children and ensure the realization of their potential to the benefit of humankind. Hyperlinked resources, including state, national, and international organizations. Based at Western Kentucky University, Bowling Green, Kentucky.

### **[WorldCat](#)**

WorldCat is the world's largest network of library content and services. Books, articles, film, and music are included in the listings from thousands of libraries. Search for almost any information on any topic.

### **[Wright State University Pre-College Programs](#)**

Academic-year and summer-enrichment programs for K-12 pre-college students. STEM programs. Some residential programs. Weeklong institutes for students entering grades 10-12 focus on Advanced Web Design, College Test Prep, Engineering, Food Science: STEM, Forensic Science, Law and Government, Performance Theatre, Take Action: Leadership, and Social Work 101.

### **[Wrightslaw](#)**

Information about special education law and advocacy for children with disabilities. Thousands of articles, cases, and free resources on dozens of special education topics. For parents, educators, advocates, and attorneys.



## [YouTube Gifted Education](#)

This ever-expanding site is packed with *dozens* of videos on all aspects of giftedness.

# ► ***Math-Science-Technology***

▲ [TOP](#)

## [Amazing Space](#)

Education resources based on the Hubble and James Webb space telescopes. Sections for educators, homework help, STEM projects, and resources on a range of topics. These include gravity, measurement, history of science, space telescopes, and more.

## [American Mathematics Competitions](#) (*The Mathematical Association of America*)

A series of national contests to identify, recognize, and reward excellence in mathematics, thus strengthening the mathematical capabilities of U.S. students. Sample problems, resources, recommended reading. (*Also see **International Mathematical Olympiad** below, in this section.*)

## [Art of Problem Solving](#) (*AoPS*)

Thousands of math resources, videos, messaging, free [online learning](#), tools for teachers, and much more. The [WOOT](#) (Worldwide Online Olympiad Training) program is a fee-based seven-month high-school math Olympiad preparation and testing program that brings together students from around the world to learn Olympiad problem-solving skills.

## [AstronomyCenter.org](#)

A collection of digital resources for teachers and students. Topics are browsable and include cosmology, fundamentals, astronomy education, the Milky Way, historical astronomy, space exploration, galaxies, exoplanets, cosmic time and distance, stars, and the sun, with extensive links. Similarly browsable are sections on pedagogy, student resources, labs, simulations, projects, and images.

## [Bill Nye the Science Guy](#)

Science demonstrations are the hallmark of Bill Nye. His [Educational Resources](#) blog offers dozens of downloadable .pdf experiments and [Episode Guides](#) (the latter are on Humans, Physics, Living Things, Space Science, Chemistry, and Earth Science). His many YouTube videos are [here](#).

## **Biology Concepts**

Animals, plants, DNA, cells, and on and on in the living world. Comprehensive and admirably presented with logical hyperlinking.

## **Biology Corner, The**

The Biology Corner is a resource site for biology and science teachers and students. It contains a variety of lessons, quizzes, labs, and information on science topics for all levels, including introductory life science and advanced placement biology. You can find lessons related to biology topics, too.

## **BrainBashers**

Thousands of brain-teasers, puzzles, riddles, games, and optical illusions. Updated weekly.

## **Broadcom MASTERS**

Covering Math, Applied Science, Technology and Engineering Rising Stars, this is the premier science and engineering competition for middle-school students.

## **California State University OpenCourseWare**

(Also see *MOOCs* above, in the **General** section.)

## **Canada/USA Mathcamp**

International five-week summer residential camp for gifted junior- and senior-high mathematics students, ages 13-18. Rich mathematics hyperlinks for students and teachers alike.

▲ **[TOP](#)**

## **Center for Excellence in Education**

This not-for-profit corporation nurtures leadership in science, technology, and mathematics. This is effected via cost-free programs for academically talented high-school students, in collaboration with academia, private foundations, corporations, and government agencies that share a commitment to education excellence. Three major programs are the **Research Science Institute** (RSI), Teacher Enrichment Program (TEP) (for teachers in a few select states), and the **USA Biology Olympiad** (USABO). USABO offers a Teacher Resource Center for program guidance.

## **Centre for Education in Mathematics and Computing** (*University of Waterloo*)

The Centre aims to increase enjoyment, confidence, and ability in mathematics and computer science among students and teachers. Through contests, workshops, online resources, and publications, the CEMC provides curricular and enrichment support to elementary and secondary schools.

## [\*\*Cogito.org\*\*](#)

This online community is for exceptional students from around the world who love science, technology, engineering, and math. Students can participate in online interviews with scientists and mathematicians; view news articles, essays, book reviews, videos, and blogs on myriad science and math topics; and access a searchable database of academic programs and math and science competitions. Supported in part by the Johns Hopkins University Center for Talented Youth. (*See **Center for Talented Youth** above, in the **Portals** section.*)

## [\*\*College-NOW\*\*](#)

Ohio-based engineering and bioscience programs for high school juniors, in partnership with North Central State College. Students can graduate with their high-school diploma and an associate degree. Residential.

## [\*\*ComPADRE Digital Library\*\*](#)

This network of free online resource collections supports faculty, students, and teachers in physics and astronomy education. The linked Quantum Exchange addresses the needs of teachers of quantum physics.

## [\*\*Connectory, The\*\*](#)

The Connectory was developed so parents and other caregivers could find local STEM education opportunities for children in their lives. It was also created with program-providers in mind, providing the means for discovering new partners, as well as ways to showcase the STEM opportunities that providers are offering for youth.

## [\*\*Coolmath\*\*](#)

Extensive, fun site for all things mathematics, science. Specific subsections for [\*\*Teachers\*\*](#), [\*\*Parents\*\*](#), and [\*\*Students\*\*](#), as well as a subsection on [\*\*Games\*\*](#), are rewarding.

## [\*\*Decoding Cancer\*\*](#)

Dedicated to understanding the science of cancer. Standards-aligned materials are for students in high school. Several downloadable lessons and companion teacher guides are available, too.

## [\*\*Discovery Education\*\*](#)

A gamut of resources — from STEM to clip art — from the cable network. Tremendous number of free resources for teachers, parents, and K-12 students. Teachers will benefit from resources like professional development and lesson plans. Math resources are especially robust.

## [\*\*Discovery Park\*\*](#) (*Purdue University*)

Home to Purdue's interdisciplinary research programs and a place where scientists and students address society's challenges, such as health, nanotechnology, energy, the environment, and bioscience. General learning opportunity for the gifted student.

### **Environmental Education - Students** *EPA – U.S. Environmental Agency*

For K-12 students who need access to homework resources to learn about the environment, and for educators who need lesson plans and project ideas to teach about the environment. Similarly, **Environmental Education (EE)** is a multi-disciplinary approach to learning about environmental issues that enhances knowledge, builds critical thinking skills. Earth Day news is [here](#). Extensive educator lesson plans, teacher guides, and other resources are [here](#) (for Spanish, go [here](#)).

### **EOL** (*Encyclopedia of Life*)

The Encyclopedia of Life brings together information about all life on Earth. One web page for each species, with more than 1.9 million total pages. It's a resource for text, images, video, sounds, maps, classifications, and more, all freely available online. Site is available in 20 languages, including Spanish and French.

### **Exploratorium**

An interactive science museum with thousands of Web pages exploring hundreds of different topics. Museum exhibits and scientific phenomena — including images, educational activities, PDFs, video and audio files — are available. Further, a wealth of apps, blogs, videos, and activities illustrate the extent of this repository. Tools for teachers round out the offerings.

### **ExploraVision**

ExploraVision is a national K-12 science competition with a strong emphasis on STEM coursework and future-world problem-solving. Sponsored by Toshiba and NSTS (National Science Teachers Association). Information is available for students, teachers, and parents alike.

### **FIRST Inspires**

Umbrella site for FIRST LEGO (ages 9-14) (*see listing below*); FIRST LEGO Jr. (ages 6-9); FIRST TECH Challenge (middle school-high school); and FIRST Robotics Competition (middle school-high school) activities. All sections are listed and linked in the Programs drop-down menu. Science reigns in all FIRST competitions.

▲ [TOP](#)

### **FIRST LEGO League International**

Introduces youth around the world to the fun and experience of solving real-world problems through mathematics, science, and technology.

### **[Free Technology for Teachers](#)**

The A-to-Z of tech resources for teachers. More than 400 tutorial videos (including more than 100 Google Apps videos), are available. Great information on timely events, such as Earth Day, supplement knowledge.

### **[Future City Competition™](#)**

Their mission is to provide an exciting engineering program for 7th- and 8th-grade students that combines an educational challenge with hands-on learning, all for their vision of a city of the future.

### **[Girls Who Code](#)**

Dedicated to closing the gender gap in technology. Learn computer science through real-world projects in art and storytelling, robotics, video games, websites, apps, and more. After-school clubs for girls in grades 6-12. Summer Immersion Program for girls in grades 11-12.

### **[Glencoe Online Mathematics Links](#)**

Algebra, fractals, statistics, teacher support, history of math, and more. All-math links.

### **[GLOBE Program, The](#)** (*Global Learning and Observations to Benefit the Environment*)

Worldwide, hands-on, primary and secondary school-based education and science program, primarily on atmosphere, hydrology, soils, and land cover/phenology, along with data measurement and reportage. Teacher guides, protocols, resources, activities, standards, assessment tools. Extensive hyperlinks and information on Earth Day, the environment, scientific instruments.

### **[Google Science Fair](#)**

The Google Science Fair is an online science and engineering competition open to students age 13-18 from around the globe. It encourages them to change the world through scientific inquiry and problem-solving. They'll learn about their chosen topic and develop key skills along the way. Sections on the competition, teacher and mentor resources, getting started, and more.

### **[Grey Labyrinth, The](#)**

Challenging fun with puzzles.

### **[HeyMath!](#)**

Implemented at several progressive schools in Singapore and India, this pedagogy for grades 3-12 blends the teaching and assessment practices of these two world-

class academic systems. Subscription fee model for grouped grades (3-5, 6-8, 9-12) and for Algebra I and II.

### **[Howtosmile](#)**

A collection of educational materials, learning tools, and services for students, especially those in STEM environments. More than 3,500 science and math activities. Curated topics include ocean literacy, climate, life sciences, math, chemistry, life sciences, and health and the human body.

### **[Hubblesite](#)**

All things related to NASA's Hubble exploration. Resources, blogs, videos, images, education and museums, discoveries, the latest news from space.

### **[HyperMath](#)**

Fundamental mathematics principles and applications, with a collection of examples of applied mathematics with hyperlinks to their applications to problems in physics and astronomy. Disciplines include algebra, linear algebra, trigonometry, vectors, geometry, calculus, logarithms, and others.

### **[HyperPhysics](#)**

The world of physics, essentially an exploration environment for concepts that employs concept maps and other hyperlinking strategies, generating literally thousands of hyperlinks. Companion site to HyperMath, above.

### **[IMACS](#)** (*Institute for Mathematics and Computer Science*)

Programs are designed to enhance the development of critical thinking, logic, and reasoning skills, with an emphasis on math, computer science, engineering, and related disciplines. Vehicles include distance (online) education, homeschooling, and summer sessions, among others. For students in grades 1-12. (Program formerly called eIMACS.)

▲ **[TOP](#)**

### **[Intel International Science and Engineering Fair](#)**

(Also see *Student Science* below, in this section.)

### **[International Mathematical Olympiad](#)** (*IMO*)

International high-school mathematics competition, with a world championship held annually. Students from more than 100 countries participate.

### **[International Telementor Program](#)**

(Also see *Mentored Pathways* below, in this section.)

### **[Invention Convention](#)**



Math, science, STEM, engineering, and similar K-8 disciplines are at the heart of this site. Resources are for students, parents, and teachers. Some outreach is via partnership with [Math Plus Academy](#).

### [\*\*JASON Learning\*\*](#)

This independent nonprofit provides curriculum and learning experiences in science, technology, engineering, and math (STEM) for K-12 students, and high-quality professional development for teachers. Award-winning curricula place students in challenging, real-world situations where they are connected with and mentored by leading STEM professionals.

### [\*\*Kids Math Games\*\*](#)

A ton of free interactive games, puzzles, quizzes, classroom activities, printable worksheets, videos, and more for those wishing to master math skills. Geometry, logic, money, fractions, money, sudoku, memory games, checkers, and other math interests are detailed. Teachers, parents, young students, and preschoolers will find worthwhile opportunities and enjoyment here.

### [\*\*Khan Academy\*\*](#)

(Also see ***Khan Academy*** above, in the ***General*** section.)

### [\*\*Math Archives\*\*](#)

Strong in teacher materials. Enormous searchable database on all mathematics topics.

### [\*\*Math Forum, The\*\*](#) (Drexel University)

Extensive resources for teachers, mathematicians, researchers, students, and parents to learn mathematics and improve mathematics education. Problems and puzzles; online mentoring; research; team problem-solving; collaborations; and professional development.

### [\*\*Math League, The\*\*](#)

Dedicated to bringing challenging mathematics materials to students, grades 4-12. Mathematics contests, books, and computer software designed to stimulate interest and confidence in mathematics.

### [\*\*Math Olympiads\*\*](#)

The goal is to promote mathematics concepts, education, and enthusiasm through creative problem-solving competitions throughout the school year in grades 4-8.

▲ [\*\*TOP\*\*](#)

### [\*\*Mathcamp\*\*](#)

(Also see ***Canada/USA Mathcamp*** above, in this section.)

### [\*\*MATHCOUNTS®\*\*](#)

A national middle-school mathematics enrichment, coaching, and competition program. Participating schools select students to compete in one of several written and oral competitions held nationwide and in U.S. schools abroad. Top participants proceed to state and national competitions.

### **Mathematical Association of America** (MAC)

(Also see *American Mathematics Competitions* above, in this section.)

### **Mathematical Olympiad, International** (IMO)

(Also see *International Mathematical Olympiad* above, in this section.)

### **Mathematics Pentathlon®**

A program, for K-7 students, of interactive, problem-solving games, supportive curricular and instructional activities, and evaluation and assessment instruments, to provide a motivational format for developing mathematics concepts and skills and strengthening strategic thinking and problem-solving. A feature of the STEM-aligned program is the linkage of arithmetic reasoning with geometric/spatial and logical/scientific thinking.

### **Maths Is Good For You**

Subtitled “History of mathematics for young people,” this British site — the “Maths” part of the name is a clue — offers courses, lesson plans, timelines, famous math theorems, math concepts, numerals, logic, trigonometry, geometry, topology, historic math (Egypt, Babylon, *et al.*), and much more. For students 11 to 18 years old.

### **MathWorld™** (Wolfram MathWorld)

From algebra and geometry to topology and number theory, this comprehensive, interactive, and encyclopedic mathematics site is for students, educators, and others.

### **Mentored Pathways**

Academic, electronic mentoring support from technology, science professionals. Project-focused and facilitated by teachers and parents. For K-12, homeschool, and university students.

### **MITOpenCourseWare**

Very deep listing of science, technology, aerospace, physics, nuclear, and related (and other) courses. (Also see *MOOCs* above, in the **General** section.)

### **Molecular Expressions™**

Optics and microscopy, including digital imaging, with photograph galleries that explore the fascinating world of optical microscopy. Hyperlinked information is rich and varied, as with an extensive bibliography and the latest edition of Mortimer Abramowitz’s renowned, 50-page, full-color introduction to optical microscopy, which covers all of the basic concepts.

## **[NASA Education](#)**

Science and astronautics for grades K-12. Superb educator resources. Subsections for NASA Explorer Clubs, Students, NASA Kids' Club, and more. The Topics section has scores of alphabetized listings, as with Apollo missions, Mars, Pulsars, Robotics, and Voyager.

## **[NASA Quest](#)**

NASA Quest Challenges are free, Web-based, interactive explorations designed to engage students in authentic scientific and engineering processes. The solutions relate to issues encountered daily by NASA personnel. This resource is for educators and students of all ages who are interested in learning about NASA and the national space program. NASA Quest offers a wide range of free online tools and resources — including Web and print lesson plans, educator guides, and workbooks — for teachers, students, parents, and others.

## **[NASA Rockets Teacher's Guide with Activities](#)**

Rocket history, background, scientific principles, and an array of hands-on projects and activities make the study of rocketry come alive.

## **[NASSP List of Approved Contests, Programs and Activities for Students](#)**

High-level student competitions in nearly all disciplines, for use by principals, teachers, parents, and students. Produced annually by the National Association of Secondary School Principals (NASSP). An annual downloadable file of more than 55 pages of approved activities is helpful.

## **[National Engineers Week Future City Competition™](#)**

Mission is to provide an exciting engineering program for 7th- and 8th-grade students that combines an educational challenge with hands-on learning, all for their vision of a city of the future.

## **[National Girls Collaborative Project](#)** *(NGCP)*

The vision of the NGCP is to bring together organizations throughout the United States that are committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM). The blog and other sections discuss challenges for girls in STEM education.

▲ **[TOP](#)**

## **[National Library of Virtual Manipulatives](#)**

The National Library of Virtual Manipulatives for Interactive Mathematics addresses the needs of pre-K-12 math students who have a full range of disabilities.

## **[Natural Math®](#)**

Mathematics can be compelling and informative for even the youngest students. Program creator Maria Droujkova helps others learn by focusing on advanced, deep, and personally meaningful mathematics.

### **[Nick's Mathematical Puzzles](#)**

Ingenious mathematics teasers that range over geometry, probability, number theory, algebra, calculus, trigonometry, and logic. Puzzles are ranked according to their level of difficulty. Outstanding [links](#) to myriad math websites.

### **[Nye, Bill the Science Guy](#)**

Science demonstrations are the hallmark of Bill Nye. His [Educational Resources](#) blog offers dozens of downloadable .pdf experiments and [Episode Guides](#) (the latter are on Humans, Physics, Living Things, Space Science, Chemistry, and Earth Science). His many YouTube videos are [here](#).

### **[OpenCourseWare](#)**

Thousands of free online courses, on math, science, statistics, technology, and myriad other disciplines. Links to a dozen university providers across the United States and the United Kingdom. (*Also see **MOOCs** above, in the **General** section.*)

### **[Perennial Math](#)**

Math competition for students in grades 3-12 is the focus. Among the options are an annual event (for teams, individuals, or homeschoolers), virtual competition, and local school-hosted on-site events around the country. See a collection of Perennial Math videos at [YouTube Perennial Math](#).

### **[Physics Front, The](#) and [The Physics Nucleus](#)**

For teachers of conceptual physics, Advanced Placement- and calculus-based physics, and algebra-based physics, as well as teachers of Physics First and Physical Science. The materials are for enrichment of the high-school physics experience, although younger students also may be suited to this exposure. Lesson plans, activities, labs, and in-service and other resources are available. Search functions are excellent.

▲ [TOP](#)

### **[Research Science Institute](#)**

Very select summer science program at Massachusetts Institute of Technology (MIT). (*Also see **Center for Excellence in Education** above, in this section.*)

### **[Ross Mathematics Program](#)**

Six-week summer program at The Ohio State University for students age 15-18 (with exceptions). The goal of the Ross Program is to instruct and inspire bright students in the art of mathematical thinking. View and download the program .pdf brochure [here](#).

## **[S.O.S. Mathematics](#)**

Mathematics review, from algebra to differential equations, with authoritative materials on more than 2,500 site pages. Hyperlinks to mathematics sites, online help, organizations, arithmetic, calculus, algebra, and others.

## **[Science Buddies](#)**

Hands-on science, projects for all. Excellent resources for teachers.

## **[Science Kids](#)**

A ton of free interactive games, puzzles, quizzes, classroom activities, printable worksheets, videos, and more for those wishing to master science skills. From Animals and Astronomy to Dinosaurs, Metals, Robots, Weather, and dozens of other topics. Teachers, parents, K-6 students, and preschoolers will find worthwhile opportunities and enjoyment here.

## **[Science Olympiad](#)**

K-12 science tournaments, local to state to national and international. Mission is to promote and improve student interest in science and to improve the quality of K-12 science education everywhere. Helpful hyperlinks to each participant state's Olympiad site.

## **[SciLinks®](#)**

SciLinks is a partnership between textbook publishers and the National Science Teachers Association (NSTA), the largest organization of science educators in the world. SciLinks-enabled textbooks have reference numbers in margins to augment textbook materials with pertinent internet sites.

## **[Siemens Competition, The](#)**

Supports interest in mathematics and science. Sponsors the annual Siemens Competition in Math, Science & Technology; the Siemens Awards for Advanced Placement examinations, taken in grades 9-11; and teacher and school awards in Advanced Placement.

## **[Siemens Science Day](#)**

For K-6 students, the program offers a variety of tools and resources for science classes. Hands-on activities and supporting videos, monthly themes, and a teacher support center. Part of **[Discovery Education](#)**.

▲ **[TOP](#)**

## **[SpaceWeather.com](#)**

For all with a curiosity about weather. Excellent image galleries. Latest information on eclipses and other current weather phenomena. Essential compendium of related links.

## **STARBASE**

From the U.S. Department of Defense, STARBASE focuses on elementary students to motivate them to explore science, technology, engineering, and math (STEM). Students who live in inner cities or rural locations, who are socio-economically disadvantaged, who have low academic performance, or who have a disability are in the target group. Hands-on instruction and activities are fundamental to mastering academics here.

## **STEM Resources** *(NAGC)*

The NAGC lists numerous sites to profit STEM students and others connected to STEM education.

## **Student Science**

Science gets its due here. Among the programs found here is The Intel International Science and Engineering Fair (Intel ISEF), the world's largest international pre-college science competition. Other features include a range of science presentations for students, and various items for educators. **Broadcom MASTERS** (Math, Applied Science, Technology and Engineering Rising Stars) is the premier science and engineering competition for middle-school students. The latest science news for students is linked [here](#), as well.

## **TeachEngineering**

TeachEngineering is a free, searchable digital library collection with standards-based engineering curricula for use by K-12 teachers and engineering faculty to make applied science and math come alive through engineering design. The TeachEngineering standards-based collection provides educators with free access to more than 1,300 activities, lessons, units, and living labs.

## **TeacherTube Math**

Math videos on myriad concepts. Video-upload contributions are an option. (***TeacherTube** is similar, but with video, print, audio, and other resources on numerous topics, for teachers, parents, and students.*)

## **TechCorps**

From coding and robotics to app development and 3-D printing, the key is technology for students in grades 3-12. Many sites are in Ohio, as well as other locales.

## **Telementor.org**

*(Also see **Mentored Pathways** above, in this section.)*

## **Ultimate Puzzle Site**

Mathematics and non-mathematics brain-teasers, puzzles, tests, and riddles. Updated regularly.



## **USA Biology Olympiad**

(Also see *Center for Excellence in Education* above, in this section.)

## **Wolfram MathWorld™**

From algebra and geometry to topology and number theory, this comprehensive, interactive, and encyclopedic mathematics site is for students, educators, and others.

## **WPAFB Educational Outreach Office**

Science, technology, aviation, and aerospace activities get their due here, for students in grades K-12. The goal is to increase student awareness and excitement in all of these fields. Programs key on STEM, robotics, science fairs, job shadowing, LEGO events, STARBASE, and more. ([STARBASE](#) is a Department of Defense program that offers hands-on learning experiences.) Some activities, including field trips, are in partnership with [The National Museum of the United States Air Force](#). Teacher resources and more are available. [Student employment](#) and [scholarships](#) are an option, as well.

## **Young Scientist Challenge**

The Discovery Education 3M Young Scientist Challenge is a video science competition for students in grades 5-8. Students have the opportunity to work with 3M scientists.

# ***Testing***

▲ [TOP](#)

[ACT](#) (Main site) [ACT](#) (Student site)

Official ACT and other assessment information. For students, parents, educators, counselors, and policymakers.

## **Buros Center for Testing**

On the science and practice of testing. Materials on selecting tests.

## **College Board**

(Also see *SAT/College Board* below.)

## **ERIC Educational Resources**

(Also see *ERIC* and *Educator's Reference Desk* above, in the *General* section; and *Hoagies'* above, in the *Portals* section.)

## **ETS Testing**

Assessment and testing to improve teaching and learning. For students, teachers, and others. Several tests — from CLEP® and HiSET® to Praxis®, SAT®, and

beyond — are listed [here](#). The National Assessment of Educational Progress (NAEP) program measures and evaluates K-12 student achievement.

### **[FairTest, The National Center for Fair & Open Testing](#)**

Works to end perceived misuses and flaws of standardized testing and to ensure that evaluation of students, teachers, and schools is fair, open, valid, and educationally beneficial. Included are K-12, NCLB, and college admissions testing, among others.

### **[HMH Assessments](#)** *(Formerly Riverside Publishing)*

Assessment and testing materials from publisher Houghton Mifflin Harcourt. Among them are Gates-MacGinitie Reading Tests, CogAT, Iowa Assessments, Logramos (Spanish language), Battelle Developmental Inventory, and Woodcock-Johnson® IV, among others.

### **[LD OnLine](#)**

Testing, the law, and information on learning disabilities. Searchable database. For parents, teachers, and other professionals. Hyperlinks to resources, bibliographic recommendations.

### **[SAT/College Board](#)**

Official Scholastic Aptitude Test site. Wide-ranging, authoritative information for students, parents, and educators. Specific pages: [Students](#), [Educators](#), [AP Central](#), [BigFuture](#) (also known generally as **College Planning**), [CLEP](#), [PSAT-NMSQT](#) and [PSAT 10](#).

### **[Test Collection at ETS](#)**

A library of more than 25,000 standardized tests and other measurement and assessment devices for teachers and others. Tests are from U.S. publishers and individual test authors, as well as sources in Canada, Great Britain, and Australia. Among the tests: GRE, HiSET, The Praxis Series, TOEFL, and TOEC.

### **[Tests and Measurements for the Parent, Teacher, Advocate, and Attorney](#)** *(Wrightslaw)*

Understanding tests and assessment, with legal insights. Huge number of authoritative resources on all related topics.

# **► Publishing-Writing-Reading**

## [ALA](#)

The primary site for the American Library Association.

### [ALA Recommended Print/Media List](#) (*American Library Association*)

An informed gamut of recommendations. *Topics:* Alex Awards, Amazing Audiobooks for Young Adults, Best Apps for Teaching and Learning, Best Fiction for Young Adults, Best Websites for Teaching and Learning, Best of the Best of the University Presses, The Amelia Bloomer Book List, Booklist Editors' Choice: Adult Books, Booklist Editors' Choice: Adult Books for Young Adults, Booklist Editors' Choice: Books for Youth, Booklist Editors' Choice: Media, Booklist Editors' Choice: Reference Sources, Booklist's Top of the List, Fabulous Films for Young Adults, Great Graphic Novels for Teens, Great Interactive Software for Kids List (historical), Great Web Sites for Kids, Listen List, Notable Children's Books, Notable Children's Recordings, Notable Children's Videos, Notable Government Documents, Outstanding Books for the College Bound and Lifelong Learners, Outstanding Reference Sources, Outstanding Academic Titles, Over the Rainbow Project book list, Popular Paperbacks for Young Adults, Quick Picks for Reluctant Young Adult Readers, Rainbow Project Book List, The Reading List, and Teen's Top Ten.

### [ALA Youth Media Awards](#) (*American Library Association*)

The authoritative media honorees. *Among them:* Alex Awards, May Hill Arbuthnot Honor Lecture Award, Mildred L. Batchelder Award, Pura Belpré Award, Randolph Caldecott Medal, Andrew Carnegie Medal for Excellence in Children's Video, Margaret A. Edwards Award, Excellence in Nonfiction for Young Adults, Theodor Seuss Geisel Award, Coretta Scott King Book Awards, Coretta Scott King - Virginia Hamilton Award for Lifetime Achievement, Coretta Scott King - John Steptoe Award for New Talent, William C. Morris Debut YA Award, John Newbery Medal, Odyssey Award for Excellence in Audiobook Production, Michael L. Printz Award, Schneider Family Book Award, Robert F. Sibert Informational Book Medal, Stonewall Book Awards - Mike Morgan & Larry Romans Children's & Young Adult Literature Award, and the Laura Ingalls Wilder Award.

## [ArlieBooks.com](#)

From author Sandra Warren. Gifted education and parenting books and videos. Information and materials for educators, also.

### [Association for Library Service to Children](#) (*ALSC*)

The Association for Library Service to Children (ALSC) is a network of more than 4,000 children's and youth librarians, children's literature experts, publishers, education and library school faculty members, and others committed to exemplary library service to children, their families, and others who work with children. Annual literary and related awards/medals are Newbery, Caldecott, Sibert, Wilder, Carnegie, Batchelder, Belpre, and Seuss, among others. Current and previous winners in all categories are listed via ALSC hyperlinks.

## [Beyond Intelligence](#)

Authors Dona Matthews and Joanne Foster bring formidable expertise and experience to understanding giftedness. Books, blogs, and other resources address concerns. Parents especially will benefit from a visit here.

### [Caldecott Medal](#) (*Randolph Caldecott Medal*)

(Also see *ALA Youth Media Awards* above, in this section.)

## **Concord Review, The** (TCR)

The foremost journal in the English-speaking world to publish research papers of high school students. Academic excellence is the goal for students who submit papers for assessment. Submissions average 6,000 words. Students in nearly every state and from more than 40 countries have seen their work published in the Review. A **summer program** in the Boston, Massachusetts, area is an option. Educators, parents, and others who subscribe to the Review often use it as a guide on exemplary research and writing by students in high school.

## **Connecting for High Potential**

Resources in this journal are for parents, teachers, and others, to provide practical advice to understand one another's perspective on working with gifted students and fostering their continued growth in educational settings. From the **National Association for Gifted Children**.

## **Database of Award-Winning Children's Literature**

Searchable reading list of top children's literature. Teachers intervening for young readers will find the site invaluable. Anyone may search the list, however. More than a dozen parameters for searching, like genre, age, ethnicity, awards, and historical period, help locate the desired books.

## **4 D Designs** (Formerly Patrick's Press)

Quiz and reference materials, information on academic competitions. Elementary grades to college level.

## **Free Spirit Publishing**

Academic, social, and emotional components of giftedness receive attention.

## **FunEnglishGames.com**

A ton of free interactive games, puzzles, quizzes, classroom activities, printable worksheets, videos, and more for those wishing to master language skills. Teachers and students will find rewarding experiences here, as will those who are ESL students.

## **Genius Denied**

Seminal book on gifted advocacy. For students, parents, educators, and mentors. A newsletter and additional resources are available. (*Also see ***A Nation Empowered*** above, in this section, and ***Davidson Institute for Talent Development*** above, in the ***General*** section.)*

## **Gifted Child Quarterly**

Scholarly journal of the **National Association for Gifted Children**. Topics include giftedness and talent development in the context of the school, the home, and society. Original reviews of literature, quantitative and qualitative research studies

written by experts in gifted education, and other articles relating to giftedness. The [GCT video blog](#) is far-ranging.

### [\*\*Gifted Child Today\*\*](#)

Published quarterly, *Gifted Child Today* offers timely information about teaching and parenting gifted and talented children. This is a 12-month electronic subscription and includes access to current and back issues. NAGC membership provides this journal.

### [\*\*Gifted Education Commons\*\*](#)

Hundreds of free, downloadable, full-length articles on all facets of gifted education are here. (Some are book-length.) Typical topics include *Educating Gifted Students In The Regular Classroom: Efficacy, Attitudes, And Differentiation Of Instruction*, by Daniel William Caldwell; *Teacher Perspectives Regarding Gifted Diverse Students*, by Toni Szymanski, Thomas Shaff; and *The Effects Of An Elementary After-School Enrichment Program On Gifted And Talented Students' Attitudes Toward School*, by Madison Nicole Cunningham.

### [\*\*Gifted Education Press\*\*](#)

Downloadable articles on all facets of giftedness. Source of the *Gifted Education Press Quarterly* and books on a range of topics on K-12 giftedness, from advanced differentiation to creative problem-solving. For educators and parents. Some materials are for pre-K use.

### [\*\*Great Potential Press\*\*](#)

Broad selection of books on creativity, biography, adolescence, social and emotional needs, legal issues, dual diagnoses, minorities, academic planning, and much more. For parents, teachers, and educators of gifted, talented, and creative children. Downloadable articles on gifted interests.

### [\*\*HMH Assessments\*\*](#) (Formerly Riverside Publishing)

Assessment and testing materials from publisher Houghton-Mifflin-Harcourt. Among them are Gates-MacGinitie Reading Tests, CogAT, Iowa Assessments, Logramos (Spanish language), Battelle Developmental Inventory, and Woodcock-Johnson® IV, among others.

### [\*\*Homer Hickam\*\*](#)

Bestselling author Hickam and his numerous popular books. He is probably best known for his memoir *Rocket Boys*, which was adapted into the hit movie *October Sky*. He also has legions of fans for his Josh Thurlow historical fiction series. His background discussion of his books promotes understanding of them, and his Discussion Questions helps educators and parents gain insights into the works.

### [\*\*Imagine\*\*](#)



Bimonthly subscription periodical from the Johns Hopkins University [Center for Talented Youth](#). Written for gifted students in grades 7-12. Career profiles, student-written articles about competitions and summer programs, advice for college planning, brain-teasers, college reviews, student creative work, and more. Recent or upcoming issue themes: Politics & International Relations, Logic, Biology, Performing Arts, and Engineering.

### [Linda Silverman, Dr.](#)

*(Also see **Gifted Development Center** above, in the **General** section.)*

### [NAGC Publications](#)

Home of several media resources: [Gifted Child Quarterly](#), [Parenting for High Potential](#), [Teaching for High Potential](#), [Gifted Child Today](#), and [Connecting for High Potential](#). *(Most are subscription or membership models.)*

### [Nation Empowered, A](#)

An update on the pivotal [A Nation Deceived](#), this researched-based study dating from 2015 on acceleration is invaluable.

### [National Spelling Bee](#)

The nation's largest and longest-running educational promotion, administered as a not-for-profit by The E.W. Scripps Company and local spelling bee sponsors across the United States and elsewhere. Resources for teachers, parents, and students.

▲ [TOP](#)

### [Newbery Medal](#) *(John Newbery Medal)*

*(Also see **ALA Youth Media Awards** above, in this section.)*

### [NewPages Young Authors Guide](#)

A site where young writers can find print and online literary magazines to read, places to publish their own works, and legitimate contests. Some publish only young writers, some publish all ages for young readers. For specific submission guidelines, visit each publication's linked website; huge, inspiring list for young writers and their teachers and parents.

### [NJCL](#) *(National Junior Classical League)*

The NJCL encourages an interest in and an appreciation of the language, literature, and culture of ancient Greece and Rome. In addition to competitions at local and state conferences, as well as the group's annual convention, the site lists a multitude of other competitions and numerous test examinations.

### [Parenting for High Potential](#)

Quarterly magazine designed for parents who want to make a difference in their children's lives, who want to develop their children's gifts and talents, and who



want to help them develop their potential to the fullest. From the [National Association for Gifted Children](#).

### [Pieces of Learning](#)

Expertise in differentiated instruction, standards-based teaching activities, assessment, Bloom's Taxonomy, and raising student achievement. Publisher of supplemental activity books to improve student cognitive functioning, to encourage language arts creativity, to promote mathematics and science critical thinking, and to provide social studies enrichment, among others. Teacher resource books are on differentiation, assessment, motivation, and teaching strategies, among others. Continuing staff development is of primary interest.

### [Power of the Pen](#)

Excellence in creative writing for 7th- and 8th-graders in Ohio. Tournament competition at district, regional, and state levels.

### [Prufrock Press](#)

A resonant array of more than 190 books on giftedness, for teaching and parenting gifted children. Specialties are Gifted Education, Advanced Learning, Twice-Exceptional Learners, and Special Needs Students. Subsections are for the classroom, parents, and professional development. Twenty books are on differentiating classroom curriculum strategies and instruction. Other category titles: history, math, young adult, parenting, science, social studies, philosophy, and other interests. The [Prufrock Press blog](#) is fresh, with newsletter and podcast options.

### [ReadWriteThink](#)

This site provides educators, parents, and after-school professionals with access to the high-quality practices in K-12 reading and language arts instruction. A fine array of classroom, parent, video, and other resources. Printable assessment sheets are solid.

### [Rimm, Dr. Silvia](#)

*(Also see **Sylvia Rimm, Dr.** above, in the **General** section.)*

### [Royal Fireworks Press](#)

Publisher on giftedness. Recommendations for novels on giftedness and books about gifted women and girls (some of the books are on historical figures).

### [Sandra Warren](#)

*(Also see **ArlieBooks.com** above, in this section.)*

### [Scripps National Spelling Bee](#)

The nation's largest and longest-running educational promotion, administered as a not-for-profit by The E.W. Scripps Company and local spelling bee sponsors across the United States and elsewhere. Resources for teachers, parents, and students.

### **Silverman, Dr. Linda**

(Also see *Gifted Development Center* above, in the *General* section.)

▲ [TOP](#)

### **Scholastic - Books & Reading**

Books, book lists, parent guides, blog posts, activities. Here are a wealth of resources to help promote reading, books, and the language arts. Groupings are by age and resource type.

### **Stephanie S. Tolan**

North Carolina author of novels, plays, and articles on giftedness. Newbery Medal recognition in 2003 was for *Surviving the Applewhites*.

### **Stone Soup**

Story, art, and poetry submissions by students ages 8 to 13. Resources for teachers, too, from this not-for-profit group.

### **StoriesWithHoles.com**

From Nathan Levy, a longtime educator and consultant on gifted education. Critical thinking, writing, logic, and hands-on activities for youth. Beyond the 20-volume *Holes* set, book topics are mathematics, geography, sculpture, writing, multiculturalism, science, brain games, art, genealogy, poetry, and many others. Discovery and enjoyment are central to the student books. Other titles are for teachers.

### **Sylvia Rimm, Dr.**

(Also see *Sylvia Rimm, Dr.* above, in the *General* section.)

### **Teaching for High Potential**

Each issue of this journal is filled with practical guidance and classroom-based materials for educators striving to understand and challenge their high-potential students. From the [National Association for Gifted Children](#).

### **Teen Ink**

This magazine's role is to listen and to provide a forum in which teens can express themselves through poetry, essays, stories, reviews, art, and photography.

[Workshops and forums](#) are all-embracing. The [Teen Ink Summer Program and Camp Guide for Teens](#) is impressive.

### **Tin Man Press**

This publisher of teaching materials originates and publishes thinking-skills materials for the elementary grades. Books, activity books, and card sets are among the fare for learning.

### [Tolan, Stephanie S.](#)

North Carolina author of novels, plays, and articles on giftedness. Newbery Medal recognition in 2003 was for *Surviving the Applewhites*.

### [Warren, Sandra](#)

(Also see *ArlieBooks.com* above, in this section.)

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