

DukeTiP



Opportunity. For Life.

What is Duke TIP?

- Duke TIP is a self-supporting, nonprofit, educational organization dedicated to the identification and support of academically gifted students.
- Arm-in-arm with schools and families, Duke TIP identifies talented young people and provides them with a wide array of fulfilling educational opportunities from fourth grade through twelfth.
- Founded in 1980, more than two million students have participated in the Duke TIP talent searches.

Talent Search Model

- Duke TIP offers a 4th-6th Grade Talent Search and a 7th Grade Talent Search.
- TIP understands that gifted students need special motivation and support. As such, the talent searches provide
 - above-level testing and appropriate assessment measures;
 - access to Duke TIP's network of educational programs and resources;
 - and motivation and encouragement for students focused on academic achievement.

4th-6th Grade Talent Search

Eligibility is an honor!

- Students currently in grades four, five, or six
- Students who scored at 95th percentile or above on a grade-level standardized achievement, aptitude, mental ability test, or approved state criterion-referenced test
- Enrollment runs from October to March
- Fee is \$37
- Financial aid is available for students who qualify for free or reduced lunch
- Benefits continue through sixth grade year

Participation is rewarding!

- Participants in the 4th-6th Grade Talent Search receive
 - special motivation to focus on academic achievement and encouragement to continue challenging themselves;
 - the opportunity to interact with other academically talented students and to access an array of opportunities and resources;
 - and the opportunity to learn more about their academic abilities through above-level testing and assessment.

4th-6th Grade Talent Search Benefits

- **Recognition** for the student's outstanding abilities and achievements



4th-6th Grade Talent Search Benefits

- **Publications** created specifically for the students that are both fun and educational

Duke TIP Navigator
4th-6th Grade Talent Search Newsletter Spring 2012



Inventing is fun

By Susan Clardy

Ever think of trying it? Why not? Sometimes all it takes to start on the path of inventing is to work with a friend on a project.

That's what Steve Jobs and Steve Wozniak did. The two Steves met in high school and later were part of a group of engineering types who gathered as a computer club. In 1975, along with other club members, they were inspired when they saw the Altair, the first personal computer, and like the others, they thought they could create an even better one. As Wozniak designed the hardware, the circuit boards, and created the operating system for what would be called the Apple I, Jobs sourced him on, contributed ideas, and insisted they form a company. They called it Apple Computer. Its products—from the Mac Book to the iPhone to iPad—have changed the way we communicate. Not bad for what began as tinkering by best friends.

How can you start inventing? Maybe you could get together with a friend like the two Steves did. Or a few friends. Could be fun. Try looking at tools you use all the time—pens, pencils, backpacks, bicycles, jump ropes, tape, wheels, ballons, video cameras, sports equipment, and on and on. Then think of how you could improve any one of them. For example, Hanna and Heather Craig, sisters who lived in Anchorage, Alaska, decided to invent together and created The Ice Crawler, a robot that could be used by the ski patrol to rescue people in inaccessible places.



Or you and a friend, or even just you, can make a list of things to try things you have in your house or at your school. Then think of what ones you could combine to make something new. Need an example? Seventh-grade Michael Weiss of Bloomfield, Connecticut, combined a bike and a lawnmower to make a Pesto Powercut Lawn Mower!

Thinking of ideas for an invention is only the beginning. Making a model of your invention can be a great way to acquire new skills. When he was in the fifth grade, Hans Christensen Lee of Carmel, California, started work on an electric car. As he was building it over the next few years, he learned how to use power tools and laws, and about circuitry and computer programming.


Across the country, Lindsay Clement of Longview, Texas, learned about engineering in middle school when she was making a device for picking up water-soaked

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Duke TIP

Academic 411

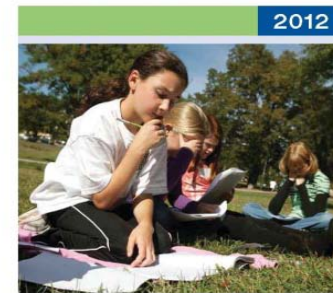


4th-6th Grade Talent Search 2012

4th-6th Grade Talent Search Benefits

- ***Staying on Course.*** A valuable resource for parents with articles written by professionals in the field of gifted education, suggestions for home activities, and review of educational research

Duke
TIP



4th/5th Grade
Talent Search

4th-6th Grade Talent Search Benefits

■ *Digest of Gifted Research.*

An online newsletter that provides conceptual, theoretical, and practical information that is understandable, useful, and actionable

■ **Educational Opportunity Guide.**

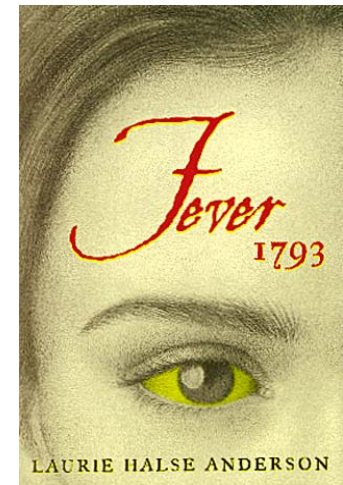
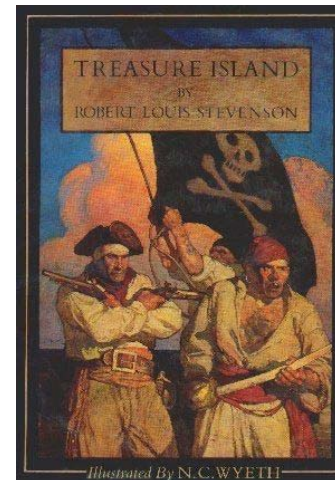
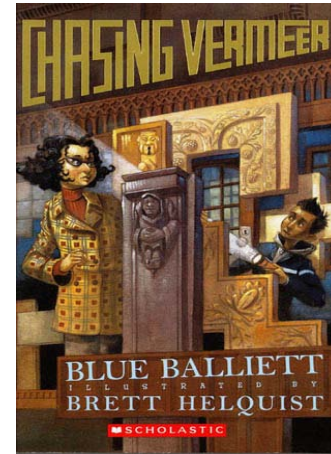
A searchable online directory containing listings for schools, summer programs, and academic competitions across the U.S. and abroad

The screenshot shows the homepage of the 'Digest of Gifted Research' website. The navigation bar includes links for HOME, PARENTS, STUDENTS, EDUCATORS, CONTACT, ABOUT, RESEARCH AND RESOURCES, and SUPPORT TIP. The main content area features a 'Digest of Gifted Research' logo and a welcome message. A sidebar on the left lists 'Latest Posts', 'Hot Topics', and 'Videos'. The main text area contains a 'Welcome to the Digest of Gifted Research' section, followed by a 'Test Advantages Found in Males and in Females' article snippet. A right-hand sidebar lists 'Hot Topics' such as 'Looking for Appropriate Services for Gifted English Language Learners' and 'The Many Faces of Acceleration: Creating an Optimal Match for the Advanced Learner'.

The screenshot shows the homepage of the 'Educational Opportunity Guide' website. The navigation bar includes links for HOME, PARENTS, STUDENTS, EDUCATORS, CONTACT, ABOUT, RESEARCH AND RESOURCES, and SUPPORT TIP. The main content area features an 'Educational Opportunity Guide' logo and a welcome message. A central search form allows users to filter results by 'Program Name Keyword', 'Program Type', 'Academic Field', 'Location', 'Grade/Age Level', 'Term', and 'Cost'. Below the search form, there are three featured program listings: 'Trinity Preparatory School', 'Camp Braddock', and 'Washington University High School Summer Experience'. A right-hand sidebar provides instructions on how to use the search and how to create a list of programs of interest.

4th-6th Grade Talent Search Benefits

- **Book Club.** Participants share responses to discussion questions via a secure blog and participate in interactive, online lessons in language arts, social studies, math, and science – all driven by the selected book.
 - Three to four books are chosen per year.



4th-6th Grade Talent Search Benefits

- **Writing Contest.** Entries are judged by members of the Duke faculty and TIP staff.
- Monetary prizes are awarded for each grade to the winners and to their enrolling schools.
 - 1st Prize is \$250.
 - 2nd Prize is \$100.
 - 3rd prize is \$25.

4th-6th Grade Talent Search Benefits

- **Online lessons** offer self-paced, independent study in which students learn concepts and skills.
 - **Creative writing** with *Story Writing: Spin Me a Yarn*
 - **Math and science** with *Number Secrets and Secret Codes* and *Powerful Connections: Exploring Energy in Our Lives*
 - **New for 2012!** *Reinventions in Architecture*

Story Writing: Spin Me a Yarn
The Fab Five of Story Writing, Lesson 1


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Ever Heard the Expression, "Spinning a Yarn"?

[No, I Haven't. Let Me Guess! \(Click Here\)](#)
[Yes, I Have. Test My Knowledge! \(Click Here\)](#)

Imagine a time not so long ago when you couldn't have the luxury of going to a clothing store or going online to purchase your attire. Imagine a time when you couldn't travel to a hardware store to buy something as basic as rope. Instead, over a century ago you would have had to spin yarn out of flax fibers or sheep's wool on the spinning wheel if you wanted new garb! The next step was to weave cloth from the yarn, followed by cutting and sewing the cloth to make a shirt. No wonder people owned only a few outfits! Then if you needed rope, you'd have to twist enough yarns together to make the rope thick enough to use for the hard work of sailing or farming.

Each of these processes took a long time, because a person had to continually stretch the fibers to make sure they were the right length, the right size, and the right twist. Everyone in a family would help out. So with all this work and all the time it took to do the work, people entertained one another by telling tales. Great stories grew



Hand Outs

Mentor Guide: Lesson One: A Handout

Mentors (teachers, parents, tutors): This guide will help you plan the use of these independent study materials with your student.

Learn More

Are you having a hard time picturing how clothes get made from yarn? It's a lost art for

EXPLORE Testing

- Duke TIP offers this optional, above-level testing experience in conjunction with ACT.
- An eighth-grade level test that provides families with an additional indication of where their gifted child stands academically
- Students who score in the 99th percentile on the composite section are honored at a 7th Grade Talent Search state recognition ceremony.
- Fee: \$35

Enrollment is Easy!

- Enrollment begins October 1
- Enroll online at [www.duke.edu/tip](#)
- Alternatively, mail paper applications to Duke TIP
- Fee: \$37
- Benefits continue through the sixth grade year

Financial Aid is available.

- Students who qualify for free or reduced lunch are eligible for a complete fee waiver.
- Duke TIP awarded more than \$3 million across all programs in 2012.

Educational Programs

Independent Learning

- Self-paced, engaging studies anytime, anywhere for grades four through twelve
- Variety of formats—CD-ROM, workbook, and/or online
- No qualifying criteria
- Students work with a local mentor.
- Order online or by phone
- Schools receive a 20 percent discount.



Academic Adventures

- Challenging, hands-on learning experiences for 4th-6th Grade Talent Search participants
- One-day study where participants can explore topics not typically covered in schools
- Locations include:
 - Duke University, Durham, NC
 - Houston Museum District, Houston, TX
 - Fort Worth CDS, Fort Worth, TX
 - Thomas Jefferson Independent Day School, Joplin, MO
 - University of Georgia, Athens, GA
 - Wichita Collegiate, Wichita, KS



CRISIS!

- A week-long commuter program for rising and current sixth graders
- Emphasizes problem-based learning and leadership skills as students work together to solve a community crisis



