Summer Program

2015 Catalog Supplement

Brookfield, Wisconsin Summer Program Courses

Center for Talent Development
Northwestern University
School of Education & Social Policy

in collaboration with the
Elmbrook School System

offers a new summer program option for gifted students grades 2-4

July 20-31, 2015
Brookfield Elementary School
2530 North Brookfield Road
Brookfield, Wisconsin 53045
Overview

The CTD Summer Program allows gifted students to delve deep into a subject of intrigue, build upon their strengths and connect with a community of peers. Our new program site in Brookfield, Wisconsin offers fast-paced enrichment options for students in grades 2-4 in math, science, design and engineering, and computer programming.

Students need not be enrolled in the Elmbrook School District to apply. Applications are welcome from any geographic area. Courses at the Brookfield site are commuter only. No residential options are available.

Contact Information
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Our Courses

All-day courses in Leapfrog (grades 2-3) and Spark (grades 3-4) introduce students to a topic of interest and foster critical and creative thinking through interactive, project-based activities. Students take a single course that meets approximately six hours a day for one week. Courses meet from 8:30 a.m. to 2:45 p.m. In Brookfield, students may enroll in a single week or in two consecutive weeks.

Students enrolled in an all-day Leapfrog or Spark course are automatically enrolled in the lunch/recess option at no extra charge. Students are supervised by teaching assistants as they eat lunch and participate in games and recreational activities. Parents must provide a bag lunch that does not require refrigeration or heating.

Select a course or courses that best fit your child’s academic strengths as determined through test scores and/or other academic measures.

Week of July 20-24, 2015

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>GRADE</th>
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<tbody>
<tr>
<td>LPBR15-5-F(2/3)</td>
<td>2/3</td>
<td>LEGO® Metropolis: Urban Design &amp; Architecture</td>
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<tr>
<td>LPBR15-5-R(2/3)</td>
<td>2/3</td>
<td>Rule Your World: Playing &amp; Analyzing Strategy Games</td>
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<tr>
<td>LPBR15-5-D(2/3)</td>
<td>2/3</td>
<td>Tech Power Animation: Scratch &amp; More</td>
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<td>SKBR15-5-B(3/4)</td>
<td>3/4</td>
<td>Survivor Math</td>
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<tr>
<td>SKBR15-5-F(3/4)</td>
<td>3/4</td>
<td>Robotics Lab: Recording &amp; Sharing EV3 Experiments</td>
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Week of July 27-31, 2015

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<td>2/3</td>
<td>Digital Game Design</td>
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<tr>
<td>LPBR15-6-C(2/3)</td>
<td>2/3</td>
<td>Wilderness Challenge: Math &amp; Science Outdoors</td>
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<tr>
<td>SKBR15-6-F(3/4)</td>
<td>3/4</td>
<td>Design Your World: Invent &amp; Test Complex Board Games</td>
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Mathematics
Students with strong mathematical ability may enroll in a Mathematics course. Identify the appropriate section for your child based on his/her grade level on January 1, 2015. See course charts for course availability per site and week.

(3/4) Survivor Math
Applying math skills is the key to survival in this creative problem-solving course. Students role-play a variety of exciting scenarios such as being marooned on a desert island, trapped in a disabled space station, cornered by an enemy army or stranded in a deadly snow-storm. Geometry, algebraic thinking, probability and measurement are just a few of the mathematical concepts used to save the day.

Science
Students with strong math or verbal ability may enroll in a Science course. Identify the appropriate section for your child based on his/her grade level on January 1, 2015. See course charts for course availability per site and week.

(2/3) Wilderness Challenge: Math & Science Outdoors
Outdoor challenges require determination, self-reliance and knowledge of math and science concepts. Students learn about outdoor resources for food, water and shelter. They create solar ovens to cook food and learn methods for purifying water. In addition, students build a shelter using basic, sometimes found, materials. This hands-on course combines classroom time and outdoor learning. Please wear clothes that can get dirty.

(2/3) LEGO® Metropolis: Urban Design & Architecture
Imagine a whole city made out of LEGO® bricks! Introductory urban design and architecture concepts come to life when students collaborate to plan and create buildings, roads and city infrastructures out of LEGO® bricks. Course activities include producing blueprints and maps, researching urban planning in real cities such as Chicago, and brainstorming solutions to design and engineering challenges.

(2/3) Rule Your World: Playing & Analyzing Strategy Games
Games like Ticket to Ride, Settlers of Catan and 7 Wonders develop skills such as making predictions, calculating odds, developing alliances and creating contingency plans. Students play games, discuss and learn strategies and evaluate outcomes.

(3/4) Design Your World: Invent & Test Complex Board Games
When playing Euro-style board games, players visit exciting imaginary or historic settings and navigate through rule-based scenarios. Designing a great board game requires creativity as well as logic, analysis and innovation. Designers must think about what makes a game appealing and keeps it engaging. Students learn principles of design such as prototyping, testing, gathering feedback and the iterative process as they choose and refine their own game themes and mechanics to maximize the fun.
Computer Science & Technology

Students with strong math or verbal ability may enroll in a Computer Science & Technology course. Identify the appropriate section for your child based on his/her grade level on January 1, 2015. See course charts for course availability per site and week.

(2/3) Tech Power Animation: Scratch & More

Animation is all around us: in movies, on the Internet, even on our phones. In this hands-on course students learn fundamental computer animation using Scratch, a programming language designed to help young people produce rich interactive media. Skill development includes basic drawing tools as well as simple animations, graphic morphing and graphic layering. Students create a brief animation program to share at the Expo! After completing this course, students are prepared for more advanced animation and program design work.

NOTE: Additional $25 lab fee is required.

(2/3) Digital Game Design

Creating your own video games develops programming skills and design thinking. Aspiring game designers use tools such as Gamestar Mechanic to design, test and play their own digital games.

NOTE: Additional $25 lab fee is required.

(3/4) Girl Power: Web Design

Learn about exciting, current technology topics! Using hands-on, project-based approaches, students are introduced to web design tools and Photoshop. Students delve into the design process through introductions to fun and powerful software, which may also include Flash, Adobe Dreamweaver and Notepad++.

NOTE: Additional $25 lab fee is required.

(3/4) Girl Power robotics lab: recording & Sharing EV3 Experiments

This is the same course as Robotics Lab, but taught in a girls-only learning environment. The girls-only format is designed to help develop girls’ leadership skills and encourage achievement in science and technology. There are no prerequisites for this course.

NOTE: Additional $25 lab fee is required.

(3/4) Invention Convention: Ingenious Engineering

Humans continually invent new ways to make their lives easier, safer and more interesting. We create new and improved toys and games. We figure out more efficient ways to transport our stuff and ourselves. Students channel their creative instincts by brainstorming, designing and constructing inventions that really work. The work begins with the study of great inventors and how and why certain products or machines were invented. After brainstorming ideas, students develop their own invention, plan how to make it, and then create and test their product.

NOTE: Additional $25 materials fee is required.

(3/4) Robotics Lab: Recording & Sharing EV3 Experiments

Building and programming robots using LEGO® EV3 robotics kits develop engineering and computer science knowledge and skills. Recording and documenting robotics projects, with both words and images, develop introductory scientific research skills. This course is the whole package—hands-on experience with technology and preparation for scientific research and traditional lab experiments. There are no prerequisites for this course.

NOTE: Additional $25 lab fee is required.

“Our daughter was totally energized by this class!”

– 2014 Parent
Program Details

Additional application information is available on CTD’s website at www.ctd.northwestern.edu/summer.

Application Period
Applications are reviewed as they are received.

Application Review Process
Please be sure your application includes all required materials. Applications are reviewed only after they are complete.

Once the CTD Summer Program office receives a completed application, it is forwarded to the appropriate program coordinator for review. Once an enrollment decision is made, the program coordinator will notify the applicant via e-mail. The process takes approximately four weeks from the time that a completed application is received in the office. Due to the volume of applications, the review process may take longer for applications submitted closer to the start of the program.

NOTES:
• Applicants submit an application online at www.ctd.northwestern.edu/summer. If you are unable to apply online you may request that a paper application be sent to you by contacting the Summer Program office.
• If you have questions, please e-mail Summer Program staff directly: summer@ctd.northwestern.edu.

Course Availability
Complete applications are reviewed in the order received. A course listed as available on the website at the time an application is submitted may be filled before that application is processed, due to the queue of applications awaiting processing.

Eligibility
Leapfrog/Spark courses in Brookfield, Wisconsin are specifically designed for students in grades 2 through 4 who demonstrate exceptional ability and a strong interest in learning. Students should apply for courses that are in their subject area of greatest strength and interest. The focus of the program is on advancing higher-order and creative-thinking skills in students’ talent areas. Courses are fast-paced and the curriculum is designed for students who function at least one or two grade levels above their chronological grade placement. Families should select a course grade band based on age and the grade level on January 1, 2015.

Admission criteria vary by subject area and grade completed, as detailed below.
• For math courses: Students must have a quantitative or mathematics score in the 90th percentile or above on an in-grade, nationally normed standardized achievement test.
• For science, technology or design and engineering courses: Students may qualify with a quantitative/math or verbal/reading score in the 90th percentile or above.

NOTE: If your child’s test score report does not include a National Percentile Rank (NPR), ask your school administrator whether or not the information is available.

Students who participate in Northwestern University’s Midwest Academic Talent Search (NUMATS) in grade 3 may submit EXPLORE test scores to qualify for Leapfrog or Spark courses. Since EXPLORE is an above-grade-level test, students do not need to score in the 90th percentile on the EXPLORE subtests to qualify, though CTD staff reserves the right to request additional information to make an admission decision.

Students in grades 2 through 4 who do not have test scores may choose to submit an Admission Portfolio.
Brookfield Leapfrog & Spark Course Fees

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<tr>
<th>Per one-week Leapfrog course</th>
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<tbody>
<tr>
<td>Tuition</td>
<td>$650</td>
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<table>
<thead>
<tr>
<th>Per one-week Spark course</th>
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<tbody>
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<td>$650</td>
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NOTES:
• Online application requires credit card payment. Contact the Summer Program if you are unable to pay via credit card.
• Fees include tuition and basic materials. A few courses require an additional lab or materials fee.

Refunds & Withdrawals
• All requests for tuition refunds and/or withdrawals must be made in writing and either e-mailed, faxed or mailed to CTD.
• If a student withdraws in writing before June 8, 2015, CTD will refund the program fees paid, less a $60 withdrawal processing fee.
• If a student withdraws after June 8, 2015 but before the start of the course, CTD will refund 50% of the program fees paid, less a $60 withdrawal processing fee.
• Students who withdraw after the start of a course receive no refund.
• Students dismissed for disciplinary reasons are not eligible for any refund.
• Refund processing may take eight weeks, starting from the time a written request is received by CTD.
• Financial aid will be awarded for a maximum of one all-day course of Leapfrog or Spark per student.
• To be considered for financial aid, families must complete the Financial Aid Application. All required materials (tax information, statement of need, etc.) must be included in the financial aid submission in order for a financial aid application to be considered.
• The amount of financial aid granted and the balance due will be reflected on the invoice included in the acceptance materials. Any outstanding balance must be paid by June 1, 2015.

Financial Aid
• CTD offers need-based financial aid which is awarded on a rolling basis as requests are received beginning in January 2015. Families are encouraged to apply early as the amount of aid available is limited and is typically exhausted quickly.
• The aid awards vary from partial to full tuition support. Awards are based on family income and extenuating circumstances (e.g., loss of job, unforeseen medical expenses, etc.). Most families awarded aid have a total household income of less than $50,000.

Evaluations
• Leapfrog and Spark courses are for enrichment; students do not receive grades for the course(s) they complete.
• All students are sent a narrative evaluation which includes comments on performance and recommendations for future study.
• Evaluations are sent to families via e-mail after the end of the summer program season, usually by September 15.

Program Application Procedures
You may apply online at www.ctd.northwestern.edu/summer or request that an Application for Admission be sent to you. CTD does not accept faxed applications. To begin the application process, select the applicant type best suited to you based on the descriptions below.

“Everything about the program itself is exceptional. . . 100% awesome experience.”
– 2014 Parent
New Applicant or New Scores
The student must meet one of the following two criteria:
• The student has never attended a Center for Talent Development (CTD) program and has qualifying test scores (see Eligibility section for details).
• The student has previously attended a CTD program, but the student has new test scores qualifying the student in an additional content area.

Recent Participant
The student must meet both of the following criteria:
• The student has successfully completed a CTD course (within the last 2 years) and the student is applying for a course in the same subject area or one that requires the same qualifying score.
• The student has test scores or an admission portfolio on file at CTD that meets the criteria for the course for which the student is applying.

Admission Portfolio Applicant
The student must meet both of the following criteria:
• The student is in grade 2, 3 or 4 (as of January 1, 2015).
• The student does not have qualifying test scores because the student has 1) never taken a nationally normed standardized achievement test or 2) taken this type of test but not achieved a qualifying test score.

The online application is available at www.ctd.northwestern.edu/summer. You will need a credit card to complete the transaction and submit the application. We recommend that you prepare all necessary supporting documents (test scores, teacher recommendation contact information, etc.) for the application in advance.

Applicants will be e-mailed a confirmation that they have completed the application. The parent e-mail provided in the online application is the address to which all CTD communications will be sent. Please note that applications are not complete nor are they reviewed by Program Coordinators until all supporting documentation is submitted.

If you are not able to apply online, request that a paper application be sent to you by e-mailing the Summer Program office at summer@ctd.northwestern.edu or calling 847/491-8257.

Be sure to provide us with the following information:
1) Which application form(s) you are requesting (i.e., Leapfrog)
2) How you would like the material sent: e-mail or postal service
3) Address and contact information: name, mailing address (including city, state and zip code) or e-mail address and, in both instances, a phone number in case we need to contact you.

When you register your child for a CTD course, you will receive notifications of other programs and services provided by CTD. If you do not wish to receive e-mail messages promoting programs or services from CTD contact us at 847/491-3782 ext. 4.

APPLICATION NOTES:
• Test scores refer to nationally normed standardized achievement tests. For a list of example tests, visit our website at http://www.ctd.northwestern.edu/summer/programs/leapfrog/eligibility/
• If test scores submitted are more than two years old, CTD may request additional information or updated test scores.
• The report card should be the most recent evaluation of your child’s school performance.
• For portfolio applications, a recommendation from the student’s current classroom teacher is required. Families will find the link to the teacher recommendation form on the Forms and Downloads page of the Summer Program website.
• All courses are taught in English. Students need a good command of written and spoken English to succeed in the courses.