

IntelliBricks STEM Virtual Summer Camps

Link to register: <https://www.intellibricks.org/>

Camps offered:

Price Range: \$140 - \$160

Make Math Fun with Abacus

WHEN

Session 1	Session 2
Mon (6/8) 9am–12pm (3 hrs) Tue (6/9) 9am–12pm (3 hrs) Wed (6/10) 9am–12pm (3 hrs) Thu (6/11) 9am–12pm (3 hrs) Fri (6/12) 9am–12pm (3 hrs)	Mon (7/6) 9am–12pm (3 hrs) Tue (7/7) 9am–12pm (3 hrs) Wed (7/8) 9am–12pm (3 hrs) Thu (7/9) 9am–12pm (3 hrs) Fri (7/10) 9am–12pm (3 hrs)

AGES 7–12 yrs old

An Abacus is an ancient tool used in parts of Asia to perform math calculations. If your child loves math, they are sure to be intrigued by this new method of doing Math. Or if your child is intimidated by Math, then this class may help them approach it in a way that works better for them. The Abacus method of learning math helps children strengthen their foundations in Math, improves memory, sharpens concentration, clarifies logical reasoning and increases their capacity to perform mental math. In this week long class, children will learn the basics of abacus equipment, use an abacus to solve multiple digit addition and subtraction problems. The Friend number rules for Abacus will be introduced and reinforced during the entire camp, helping them to tune their minds for mental mathematics. Students will also receive a workbook with almost 50 worksheets at the start of the camp to practice their skills. This camp will prepare students for our more advanced abacus courses that will be conducted during the next school year.

Children will need access to laptop/ desktop with a reliable internet connection. A Japanese Abacus is also required, it can be either purchased online (\$8 to \$20) or a free abacus app can be downloaded to your smart phone and used in lieu of a physical abacus. Details of which will be emailed to you once you register for the class.

Apps we recommend for the class can be found here: https://drive.google.com/file/d/1Piq258O0F_xtWO_Fw33eFEIrlGLxwPzA/view

Introduction to Coding with SCRATCH

WHEN

Mon (6/15) 9am–12pm (3 hrs)

Tue (6/16) 9am–12pm (3 hrs)

Wed (6/17) 9am–12pm (3 hrs)

Thu (6/18) 9am–12pm (3 hrs)

Fri (6/19) 9am–12pm (3 hrs)

AGES: 7–12 yrs old

We're introducing another adventure into the world of STEM: coding! Using a program called SCRATCH, students will be able to use a comprehensive and intuitive, drag and drop interface to create their first program. This class will go through some coding basics such as loops, if statements, variables, and a several more concepts. Students will be able to create some small animations, and even a few basic games. This class will also serve as a foundation for the game coding and animation classes, which will be introduced by IntelliBricks in the coming weeks.

Students will be able to control fun little characters called Sprites, using colorful blocks to create codes for them to follow. This class will help your student improve their critical thinking and problem solving skills, all from the comfort of your own home. A live instructor will be teaching the class and answering questions, and we're keeping a small class size to ensure they have ample time with each student. We will also send review materials each day for students to practice the skills that they have learned after the class for even more fun.

A Laptop or desktop computer with reliable internet is all that's required to attend this class, unfortunately tablets and smartphones are not an option for this course.

Our classes will require no additional purchased materials, but students need to download a free software called Scratch! To get more information on downloading the Scratch Software visit

<https://www.intellibricks.org/wp-content/uploads/2020/04/Download-Scratch.pdf>

We also request parents to help the students during first 20 minutes of the class. This is to make sure that your child is comfortable using zoom. Our Instructor will also guide the students step by step on zoom controls.

Game Design with SCRATCH

WHEN

Mon (7/13) 9am–12pm (3 hrs)

Tue (7/14) 9am–12pm (3 hrs)

Wed (7/15) 9am–12pm (3 hrs)

Thu (7/16) 9am–12pm (3 hrs)

Fri (7/17) 9am–12pm (3 hrs)

AGES : 7–12 yrs old

Calling all game lovers out there. It's fun to play video games, its even more fun to design your own game! In this class you won't just learn to program the games, you will also have fun playing them. Students will not only learn the characteristics of a good game like speed, obstacles, scoring, visual appeal and sound effects, they will also learn the basics of coding like variables, if then statements, logic, loops etc. To add to this students will learn to create cool characters (sprites) for their game and will also lean to dream the backdrop for the games they create all from comfort of your own home.

A live instructor will be teaching the class and answering questions, and we're keeping a small class size to ensure they have ample time with each student. We will also send review materials each day for students to practice the skills that they have learned after the class for even more fun.

A Laptop or desktop computer with reliable internet is all that's required to attend this class, unfortunately tablets and smartphones are not an option for this course.

Our classes will require no additional purchased materials, but students need to download a free software called Scratch! To get more information on downloading the Scratch Software visit

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We also request parents to help the students during first 20 minutes of the class. This is to make sure that your child is comfortable using zoom. Our Instructor will also guide the students step by step on zoom controls.

Digital Drawing and Design

WHEN

Mon (7/20) 9–11:30am (2 hrs and 30 min)

Tue (7/21) 9–11:30am (2 hrs and 30 min)

Wed (7/22) 9–11:30am (2 hrs and 30 min)

Thu (7/23) 9–11:30am (2 hrs and 30 min)

Fri (7/24) 9–11:30am (2 hrs and 30 min)

AGES: 9–14 yrs old

Does your child love to draw? Take drawing skills to the next level by integrating technology. Digital Drawing and Design classes will use Autodesk Sketchbook software

to teach students create beautiful pieces of art. Lessons will be 2.5 hours long, five days a week with a live instructor guiding the lesson and answering questions in each one. Our Digital Drawing classes are great for experienced artists and beginners alike, with the virtual medium offering a lot of flexibility and assistance, making it very forgiving to artists just starting out, and offering plenty of options for skilled artists hoping to expand their skill set.

These classes offer opportunities to:

- Discover the advantages of digital drawing and painting
- Compare the differences between traditional methods of art creation vs. digital compositions.
- Learn new creative design terms such as pixilation, and vector-based
- Integrate elements of traditional art into a digital piece such as: Line, Shape, Form, Texture, Value, and Space.
- Learn more about positive and negative drawing in a digital workspace.
- Research how integrating layers come together to create multi-perspective scenes

Our classes will require no additional purchased materials, but students need to download a free software called Sketchbook! To get more information on downloading the Sketchbook Software visit <https://www.intellibricks.org/wp-content/uploads/2020/04/Download-Sketchbook-doc.pdf>

We also request parents to help the students during first 20 minutes of the class. This is to make sure that your child is comfortable using zoom. Our Instructor will also guide the students step by step on zoom controls.