

# AFTER SCHOOL CURRICULUM



## DESCRIPTION:

- ✔ This is a hands-on class where students build machines, buildings, vehicles and other structures out of LEGO® Bricks, using one-of-a-kind model plans designed by Bricks 4 Kidz®.
- ✔ Each class begins with a teacher-led discussion related to the model of the day.
- ✔ Students build a new project each week.
- ✔ While exploring principles of engineering, architecture, physics and more, students will develop problem solving and critical thinking skills.
- ✔ Once the project is complete, children use the rest of their time to modify their model builds and collaborate with one another.

## CURRICULUM & INSTRUCTIONAL CONTENT:

- ✔ Students will work in a lab-type setting using LEGO® components such as gears, axles and beams.
- ✔ Instructional content is multi-disciplinary and designed by educators to increase the student's general knowledge and introduce **S.T.E.M.** (science, technology, engineering and math) concepts related to the day's model.
- ✔ Lessons are designed around students' interests, with themes such as animals, space, transportation and sports.
- ✔ The material covered in each session will vary depending upon students' age, experience, and skill level.
- ✔ All materials are provided

## GOALS:

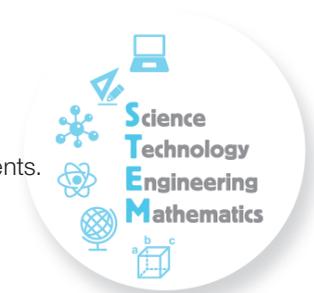
- ✔ To build problem-solving skills, provide an opportunity for creative expression and foster an appreciation for how things work.
- ✔ For students to play and socialize with friends while learning the fundamentals of engineering and architecture in a non-competitive setting.
- ✔ To help students understand that architecture and engineering are viable career choices.

## BENEFITS:

- ✔ When lessons are related to something students enjoy, such as building with LEGO® Bricks, students are motivated and retain more of what they learn.
- ✔ Working with a partner fosters teamwork and cooperation.
- ✔ Completing a new challenge each week builds self-esteem.
- ✔ Students already know how to build with LEGO® Bricks, however with a little coaching, they can learn about engineering, architecture, physics, and math using specialized components.

## DURATION/FREQUENCY/COST:

- ✔ The program runs throughout the school year and follows the school calendar.
- ✔ Classes meet 1 hour per week for 4 -12 weeks.
- ✔ Each session is competitively priced per student.



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