



Summer 2017

Enrichment Program: STEM

June 29 - August 25, 2017 (8 weeks)*

Our minds will be busy, and our bodies will have fun in the summer school of DCM !!!!!!

Discovery Christian Montessori School

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* School closed on July 3 and 4.

Schedule of Activities

Summer will be the best time for children to improve their academic skills in both language and math according to their levels. During the summer, the STEM curriculum is seamlessly integrated into our regular Montessori curriculum. In addition, two field trips and a visitation by the Snake Guy are planned.

About DCM STEM

Summer is fast approaching and we can't wait! This summer we will be offering our very own **STEM** Summer Program. [Science, Technology, Engineering and Mathematics](#) are the core and drive in today's advanced and innovative classrooms. Although this term has come in with a new wave of interest, it's a practice that we've been doing for some time. **STEM** is a great way to engage and stimulate young minds, helping them to become problem solvers, investigators and creators. This summer we will be introducing some new and exciting work.

DCM 2017 Summer STEM Program Overview

The Science of Color and Light:

- Exploring light prisms: How do we see colors?
- How does light travel?
- Refraction and reflections of the light
- Creating a color wheel

Reactions and Attractions:

- Liquid lab experiment: How do other liquids react to oil?
- Making butter from scratch & testing out the reactions
- Making Lava Lamp
- Illustrating the concept molecules with Lego
- Making slime and ice-cream

Engineering and Building Activities (combine the art of balancing and building activities):

- Learning about natural disasters in relation to structural engineering
- Simulating earthquakes to test the structural integrity of the 3-dimensional structures using common items such as tongue depressors, plastic cups, toothpicks, gumdrops, and tin foil
- Creating motorized machines using knowing of circuits
- Learning the science and importance of engineering as children are challenged to create paper planes that fly with distance

Art Appreciation:

- Learning how art can be applied in real life situations such as design and engineering
- Applying the learned knowledge of science to create various mediums of art through investigations and experimentation

- Learning how to plan for 3D structures in engineering by first creating 2D renditions
- Rendering and creating mazes using an applied knowledge of grid street plans in relation to geometric angles
- Using engineered robots to create art

Botany, Environmental Awareness and Sustainability:

- Exploring erosion and the importance of plants
- Learning and discussing how the earth naturally filters water underground and then create their own water filtration experiment
- Learning how different waste can or cannot decompose, creating their own compost in a bottle
- Discussing and create their own ecosystem
- Learning about the water and plant life cycle and discover and observe the how plants breathe through experimentation

Properties of Water and Misc. Experiments:

- Erupting Salt artwork, cohesion and adhesion activities
- Transfer power using marble illustration