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| LEGO S.T.E.M Class  Tuesdays 9am  Class Cost $120  Supply Fee: $100 | Teacher: Lori Anthony  Email: [lorisueanthony@yahoo.com](mailto:lorisueanthony@yahoo.com)  Cell: 765-438-9417 |

This class is *not* for students that just want to have fun and play with Legos – rather Legos are used as the tools in learning scientific method and critical thinking in this class. The activities require a considerable amount of writing, as well as, advanced reasoning skills. Abstract thinking and logic will be used to design and test principles of the physical world God created.

Please ensure your child meets the requirements below before enrolling them in this science-based class.

Student requirements:

* Experience building moderately complex Lego sets
* 6th grade reading and writing level
* A developing abstract reasoning ability
* Collaboration skills – team work with a partner each week
* Homework accountability (if weekly project cannot be completed in class)

Course Description:

Using the *Lego Education Simple and Powered Machines* curriculum pack, students are encouraged to involve themselves in real world investigations and problem solving. This curriculum is designed for use with students in grades sixth through eighth. Working in pairs, students can build, investigate and learn from the models and activities, topics: lever, wheel and axle, pulley, inclined plane, wedge, screw, gear, cam pawl, ratchet, and more.

They will:

1. Make assumptions and predictions
2. Design and make models
3. Observe the behavior of these models
4. Reflect and redesign
5. Record and present their findings
6. Explore the design and order of the physical world God created

Additional Expectations:

* If pieces from the students’ Lego kits are lost, they are required to pay to replace the pieces – cost will be split between the 2 students sharing that kit.
* Students will not be taking any Legos home from class and will not be able to keep any Legos at the end of the year. They are for in-class use only.

Teacher Background:

I was raised in a Christian home, and became a Christian at a young age. I have a degree in social work and have worked with elderly in a hospital setting, as well as with children. I have two sons, and have homeschooled for five years. I look forward to working with your children – watching them learn and discover.

Biblical worldview for this class:

The world obeys certain rules—these mathematical laws are seen in nature and all around us. These laws are no accident, and exist because we have a Creator God who designed our universe. In this class we will explore the design and order of the physical world God created

**“***By faith we understand that the universe was formed at God’s command, so that what is seen was not made out of what was visible*.” --Hebrews 11:3 (NIV)

**“***He is before all things, and in him all things hold together*.” --Colossians 1:17 (NIV)