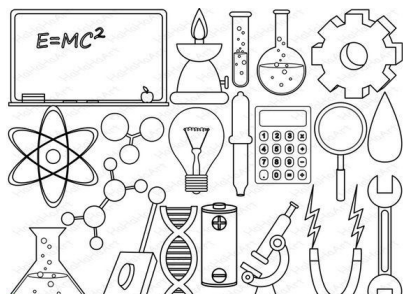


STEM Education



"What you do today can improve all your tomorrows." - Ralph Marston



What is STEM?

STEM focuses on four main subject content areas:

- Science
- Technology
- Engineering
- Mathematics

STEM curriculum is introduced to students at a young age. The curriculum blends the four content areas to give students tools that will help prepare them for success in their future endeavors. (According to Engineering for Kids)

Be a STEM Thinker at Home

Science: Take a plastic hanger, some plastic cups and string. Make a hanging balance that can be used to experiment with weight with household items. Or, if you have an older child, have them help in building the scale as well!

Questions you can ask: Why is one of the cups lower than the other? Are there any items that would make the cups appear to be at the same height?

Technology: Build a tiny rain shelter that will protect your favorite toy from the upcoming storm. Use any building materials you can find in your house. These may include: blocks, sticks, straws, Legos, etc. Use a spray bottle to test if your shelter is waterproof. If not, redesign and rebuild the shelter.

Questions you can ask: Why did you pick ___ to build with? Why would you want a shelter to be waterproof?

Engineering: Use toothpicks and mini marshmallows to create structures. Ideas may include: bridges, buildings, towers, etc.

Questions you can ask: What is the tallest structure you can build with only 15 toothpicks and 10 marshmallows? What would happen if you took away toothpicks from your structure? What about marshmallows? Test it!

Mathematics: Go on a math hunt! Hide math problems around the house that pertain to what the student is learning in school. Once each problem is solved there will be a clue to where the next problem is hidden.

Questions to ask: How did you solve the problem? Is there a different way to solve the problem and get the same answer? Is there a way to check and see if your answer is correct?

Why choose STEM Education?

- Children learn best from experience and gain hands-on education in most STEM activities
- STEM based occupations are growing at 17% per year
- Increases problem solving & decision making skills
- Creates critical thinkers & next generation innovators



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