

Full STEAM Ahead



Barneгат Brag
October 20, 2015



Welcome



- ☞ Anthony Scotto, Director of Curr. & Instruction
- ☞ Joseph Bond, District Supervisor of Elem. Ed.
- ☞ Roy Huff, LTS Teacher of Gifted & Talented
- ☞ JTDS 5th Grade Students



What is STEM?

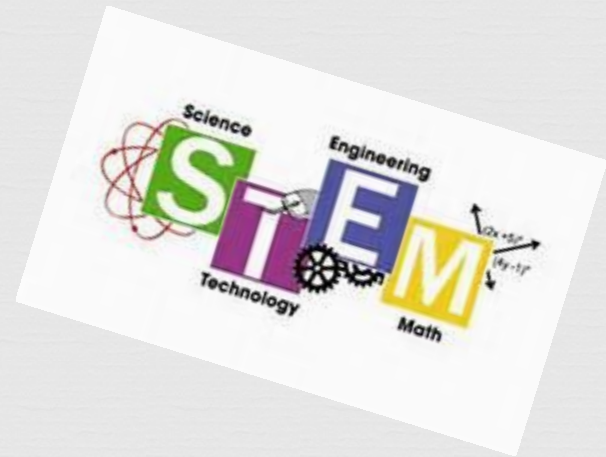


Science

Technology

Engineering

Mathematics



What is STEAM?



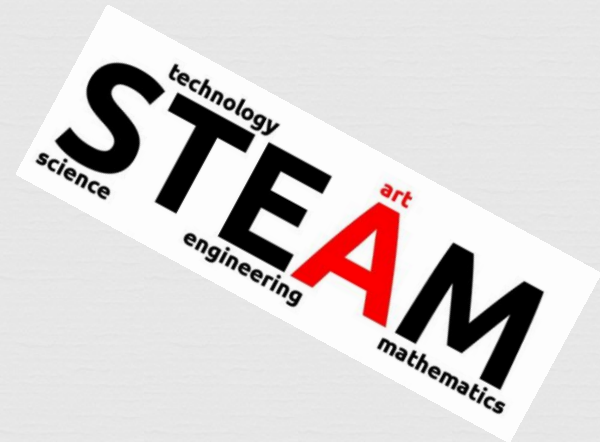
Science

Technology

Engineering

Art

Mathematics



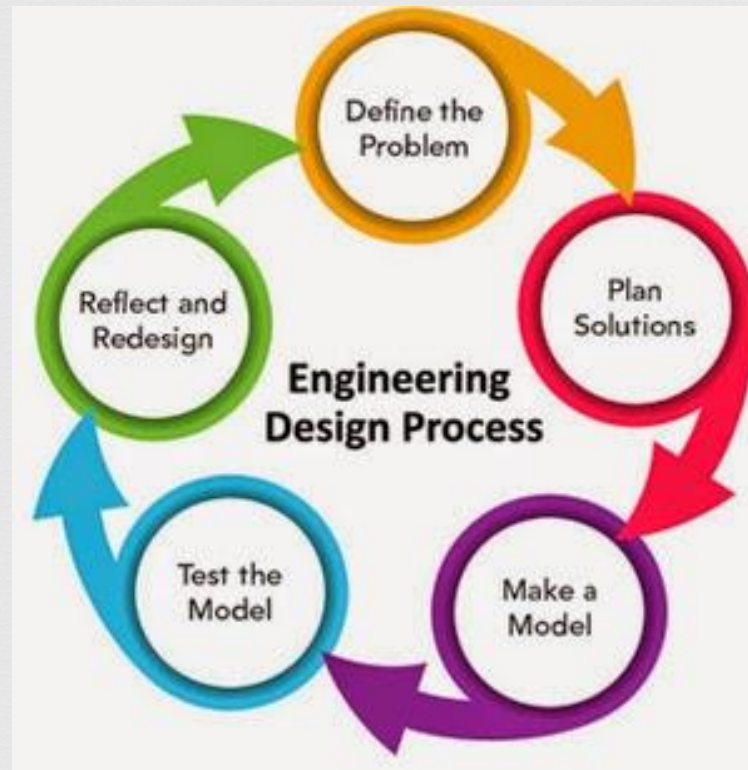
Earthquake Unit

(Essential Questions)



- ❧ How and where do earthquakes occur?
- ❧ What causes earthquakes?
- ❧ Can scientists predict when and where earthquakes occur?
- ❧ How do scientists rank or classify using the Richter Magnitude Scale?
- ❧ How can technology and engineering mitigate damage caused by earthquakes?
- ❧ How does the engineering design process help solve real-world scientific problems?

Design Loop Process



Classroom Activities



- ❧ Design (Engineering) Process
- ❧ Study an Earthquake and Richter Scales
- ❧ Construct Shake Table
- ❧ Examine Structures
- ❧ Design Models (test, reflect, refine, etc.) to withstand a simulated earthquake
- ❧ Present and Explain



Student Testimony



Let's Watch It In Action...



🔗 <https://www.youtube.com/watch?v=qA1ZztK0jQw&feature=youtu.be>



