सत्यमेव जयते

SHANTINIKETAN

EDUCATIONAL INSTITUTIONS

STEM CLUB 2020

GRADES 1 TO 3:

- BUILDING STRONG SHAPES
- ROBOTIC SKELETON

Building Strong Shapes

The theme behind this experiment is which shape is the strongest? Kids can get really creative and arrange their shapes in different ways and the goal is to support the heaviest possible object.

Make any geometrical shape circle, square, triangle etc.. using toothpicks, straws, cards, ice cream sticks, paper, paper rolls etc… and test its strength by placing a book or any object on it.

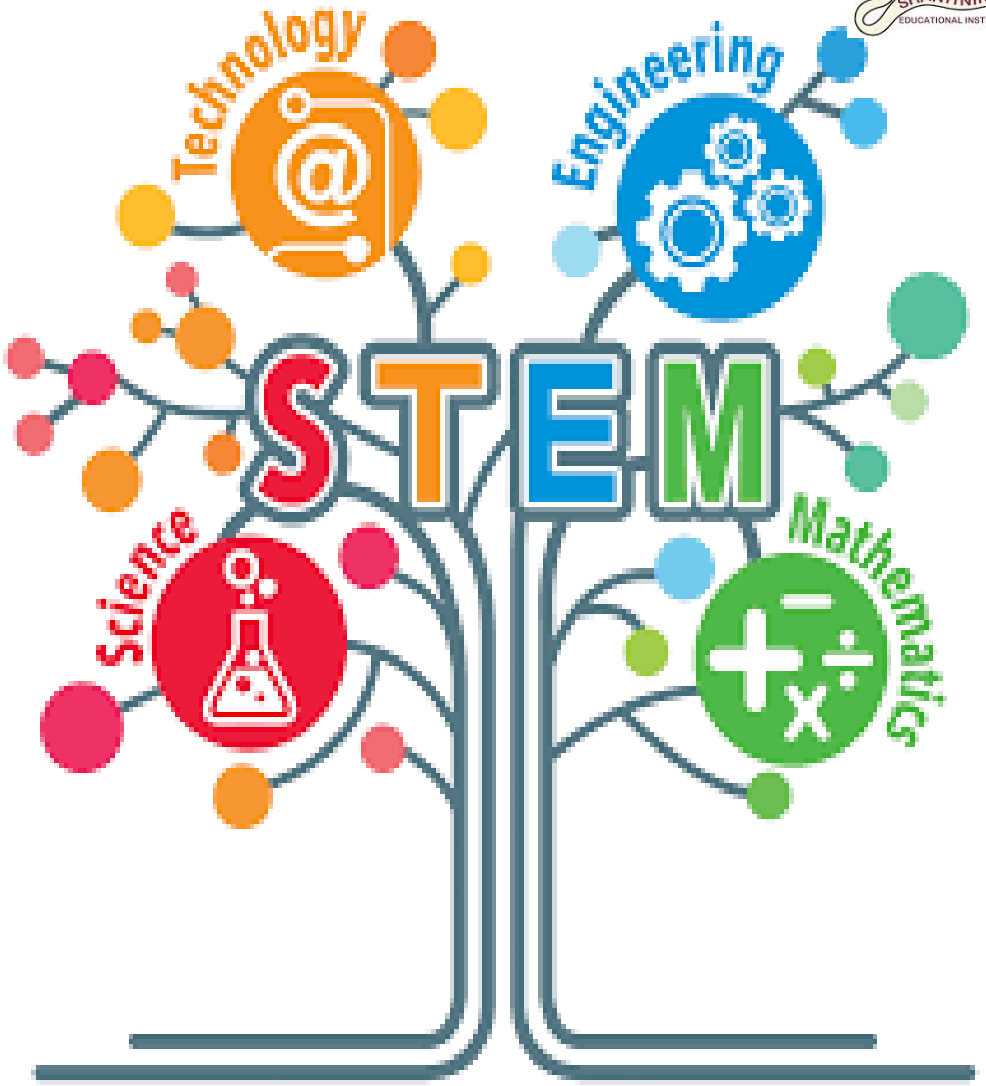
Robotic Skeleton:

Robot Hand Activity is a simple and inventive engineering activity that will give kids the opportunity to dabble in the world of robotics! It encourages exploration of robotics, engineering and creative thinking.

Prepare a robot hand using any household items (straws, paper, strings, macaroni etc..)

Mode of participation: offline (record a video for 2 min)

Student should be able to explain Online



GRADES 4 TO 6:

- ART OF 3R'S
- PARACHUTE MAKING

Art of 3R's:

Children learn the art of using 3 R's (reducing, recyling and reusing) as well as develop the knowledge about Indoor plants

Collect the things which can be any of the three Rs (reduce, reuse, recycle). Prepare an indoor plant pot using the selected object and design the pot beautifully for your study table.

Grow an indoor plant in the designed pot.

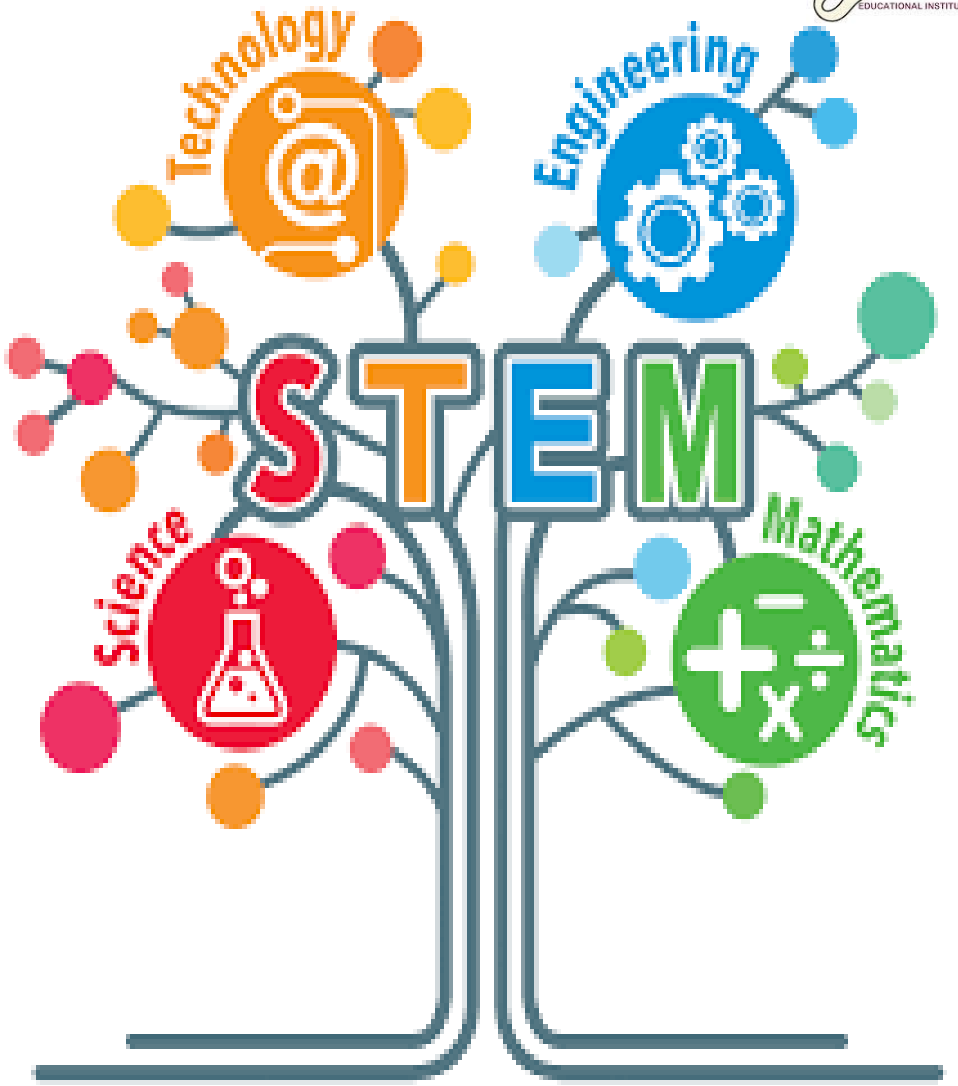
Parachute Making:

Children will learn to reuse or recreate from the trash instead of throwing them out.They learn the science behind parachute making.

Make a Parachute using a plastic bag or any other material . The challenge is to make the parachute move slow enough through the air and be extremely air resistant that can make the parachute land safely.

Mode of participation: offline (record a video for 2 min)

Student should be able to explain Online



GRADES 7 TO 9:

- DESIGNING HYDRAULIC BRIDGE
- BEST INVENTION

Designing Hydraulic Bridge:

This hands-on engineering technique provides children to understand more about the Pascals law and about the hydraulics.

Design a working model of the Hydraulic Bridge and prepare a video of your model at its working state.

Mode of participation: offline (record a video for 2 min)

Student should be able to explain Online

Best invention :

Students will explore the inventions and their scientist

Choose either one or maximum two best scientific inventions which is useful for mankind and prepare a complete report on

- the scientist who invented
- how that invention is useful to upgrade mankind and other living creatures.

A PowerPoint presentation on that topic will be appreciated.

Mode of participation: offline (power point presentation)

Students should be able to explain Online

Rules and Regulations:

- All Participants are required to prepare a PPT / Video of length as mentioned regarding their particular topic and send to their Incharge teachers
- Participants who are selected for the final round will be having an online session to explain their topic to other participants and teachers
- For any clarifications contact the incharge teachers
- We encourage all the students to be a part of this event.
- The last date for the submission would be 7th Dec 2020

Incharge Teachers:

Std I : Mrs Hajira

Std II: Mrs Sajeeda

Std III : Mrs Geetha Devi

Std IV: Mrs Geetha Devi

Std V: Mrs .Radhika Soman

Std VI : Mrs Shaheen/ Mrs Jabeen Taj

Std VII : Mrs. Archana Rao

Std VIII : Mrs. Margaret Gritta

Std IX : Mrs. Husna