



## STEM Fundamental

### Semester - 1

Session	Activity	Learning Outcomes
Session 1	Thaumatrope	Persistence of Vision
Session 2	Reflection - Concave & Convex	Reflection of Light
Session 3	Kaleidoscope	Reflection of Light
Session 4	Windmill	Wind Energy
Session 5	Sail car	Wind Energy
Session 6	Hovercraft	Air Pressure, Friction
Session 7	Dancing sprinklers	Sound Waves
Session 8	Bridge	Learn about Structure
Session 9	2d 3d	Structure, Geometrical Shape
Session 10	Tongs	Joints and Linkages
Session 11	Gears	Gears – Simple Machine
Session 12	Quiz Session	



## STEM Fundamental

### Semester - 2

Session	Activity	Learning Outcomes
Session 1	Lever 1 ( Sea Saw )	Lever – Simple Machine
Session 2	Articulated Hand	Joints and Linkages
Session 3	DIY Catapult	Lever
Session 4	Ballista	Lever
Session 5	Battery Fan	Conversion of Energy
Session 6	Motorized Colouring Bot	Conversion of Energy
Session 7	Vacuum Cleaner	Air Suction
Session 8	Newtons Disc	Optical Illusion
Session 9	Pulley	Pulley-Simple Machine
Session 10	Magnetic Spin	Magnetism
Session 11	Ramp	Inclined Plane
Session 12	Quiz Session	



## STEM Fundamental

### Extra

Session	Activity	Learning Outcomes
Session 13	Wheel Barrow	Lever
Session 14	Elevator	Pulley
Session 15	Ropeway	Pulley
Session 16	Refraction	Refraction of Light
Session 17	Static	Magnetism
Session 18	Balloon Powered car	Air Pressure