

LAES Steam Fair

Project Ideas Grades K-3

Experiments

Magnetic and nonmagnetic materials
Which materials conduct electricity best?
Which materials conduct heat best?
Sounds from different rubber bands (or glasses of water)
Which toy car rolls furthest?
Which materials dissolve in water?
Which paper towel absorbs the most water?
How vinegar affects eggshells
How a shadow changes throughout the day
Measuring rainfall with a rain gauge
Depth of snow at 10 different locations
Testing a sundial with a clock
What a plant needs to grow
Have a seed race – which seed germinates first? Grows the most?
Do large apples have more seeds than smaller ones?
Do different kinds of apples have different amounts of seeds?
What conditions do pill bugs prefer?
Can an earthworm detect light and darkness?
How far does a mealworm or snail travel in one minute?

Models and Demonstrations

How a bicycle works
How a generator (or motor) works
Simple machines
Levers
Pulleys
Open and closed circuits
How a switch works
How fuses work
How a flashlight works
How light reflects
Mixing colors
How magnets work
An electromagnet
Friction
Newton's 3rd Law
How thermometers work
Heat and air (convection mobile)
Does air have weight?
Does air exert pressure?
Evaporation
How are sounds produced?
Why things float
Why elevators have counterweights
How things move on movie film
Why the wind blows
What makes hail?
Inside our earth (model)
The earth's surface features (model)

Volcanoes (model)
Features of the sea floor (model)
Our Solar System (model)
Galaxies and the Milky Way (model)
Optical Illusions
How the ear works (model)
The ant
How seeds travel
Do plants give off water?
Tree rings
Fermentation

Observation

Fingerprints
Shadows
Crystals
Properties of solids, liquids and gases
Objects that pass and block light
Gravity
Shapes of magnetic fields
Rocks and minerals
The moon
Planets you can see
Our sun
Spring constellations
Local weather
How to read a weather map
Clouds
All about horses (or dogs, frogs, fish, birds, etc.)
A beaver home
Local wildlife
How animals, hide, defend, etc.
Animal tracks
All about crickets (or bees, beetles, ants, etc.)
Earthworms
Spider webs
Watching an ant colony
How insects change
Living things in my yard
Trees near my home
Leaf prints
Parts of a flower
Roots of different plants
Inside the egg
Teeth
Seashells

Collections

Chemical elements (carbon, lead, iron, copper, etc.)
Solids, liquids, gases
Feathers
Rocks, sand, soil
Fossils, bones
Seashells
Leaves, seeds
Bark rubbings