

# Testable Questions

Grades 3 to 8

- Does the type of wood affect how long it burns?
- Does changing the wingtip direction affect an airplane's flight?
- Does changing the movement of water affect the shade (color) of the water?
- How does the type of liquid affect how much a penny will corrode in 5 minutes?
- Does changing the type of liquid affect how quickly a nail will corrode (rust)?
- Does the brand of detergent affect how thoroughly it gets a grass stain out?
- How does the type of light affect how quickly a plant will grow?
- Does surface temperature of a glass affect fingerprints?
- Do artificial sugars attract ants?
- Does the type of insulation on the wire affect the strength of an electromagnet?
- What effect does temperature have on the strength of different types of magnets?
- On which surface can a snail move the fastest-dirt, cement, or grass?
- What is the effect of light on rate of seed germination?
- Do mint leaves repel ants, worms, or isopods?
- Does the direction seeds are planted affect plant growth?
- Is there an effect on evaporation rates when forming crystals from sugar and sugar substitutes?
- Does the length of the wire affect the power of the circuit?
- Can you make an electromagnet stronger by adding more electric cells to the circuit?
- Which antacid is the most effective in neutralizing an acid?
- What materials provide the best insulation?
- Which electromagnet design is the strongest?
- What material is the best to keep heat in?
- Does temperature affect the life of a battery?
- What material filters oily water the best?
- Does the thickness of the wire affect the power of the circuit?
- Does the length of the wire affect the strength of an electromagnet?
- Does an earthworm react to light, partial shade, or darkness?
- What type of soil filters polluted water the best?
- Does surrounding color affect an insect's eating habits?
- What is the effect of different amounts of chlorine on plant growth- large amount, small amount, or no chlorine?
- What is the effect of different amounts of air movement on plant growth?
- Do ants prefer artificial sweeteners, natural sugar, or hard candy?
- What is the effect of a magnetic field on plant growth?
- Can mealworms or other invertebrates be taught to go through a maze?
- How does the temperature of a tennis ball affect the height of its bounce?
- How does the air pressure of a soccer ball affect how far it travels when kicked?
- Which increases your heart rate more: walking up and down real stairs or using a stair-master?
- How does the temperature of water affect the time it takes to freeze into ice cubes?
- How will adding different flavors of Kool-Aid to water affect the water's boiling point?
- How does the temperature (or other changed variable) affect the number of unpopped popcorn kernels?
- Given the same amount of water, how does pot size affect the amount of time it takes to boil?
- How does a light bulb's wattage affect the amount of heat detected above a light?
- Does the color of a shirt affect the amount of heat it absorbs?

- How does temperature affect the growth of mold?
- Which stays fresher longer: organic or non-organic fruit?
- Can blindfolded people tell the difference between bottled water and tap water?
- How does caffeine affect people's heart rate?
- Which type of container traps the most heat: a shoe box covered in aluminum foil, plastic wrap, or wax paper?
- Which kind of gum keeps its flavor longer: sugar free or regular?
- What is the effect of salt on the boiling temperature of water?
- How does talking on a cell phone or listening to music affect reaction time?

## Grades K to 2

- Does the type of liquid affect how fast an ice cube melts?
- Does changing the temperature of water affect the buoyancy of an egg?
- Does the type liquid given to a plant affect its growth?
- Does the flavor of ice cream affect how fast the ice cream melts?
- Does changing the height of a ramp affect how far a toy car will travel?
- Does the type of shoe worn during a 20 metre dash affect the speed in which you can run?
- Does changing the size of a paper airplane affect how far it flies?
- Through what material does sound travel the best?
- Will more air inside a basketball make it bounce higher?
- Which type of bread turns moldy first: store bought or bakery bread?
- Does the flavor of gelatin affect the amount of time it takes to set?
- What brand of paper towel is most absorbent?
- Does a no name stain remover work just as well as a brand name?
- Do different brands of batteries last longer than others?
- How does increasing the height of a ramp affect how far a ball rolls down the ramp?
- Can people use their sense of hearing alone to tell apart a penny, nickel, dime, and quarter?
- How does temperature affect a magnet?