

Science Experiment Questions (Statement of Problem) by strand

Matter – Strand A

- Does the temperature of water affect its freezing rate?
- Does color affect the freezing rate of water?
- Does the type of liquid affect freezing rate?
- Does salt affect the freezing point of a liquid?
- Does the type of material affect the absorption of water?
- Does the color of water affect its evaporation rate?
- Does the type of water affect its evaporation rate?
- Does the temperature of water affect the evaporation rate?
- Does the type of cheese affect mold growth?
- Does temperature affect mold growth?
- Does temperature affect the browning of bananas?
- Does the type of liquid affect the buoyancy of an egg?
- Does the amount of salt in water affect buoyancy of an egg?
- Does the sugar content of a soda affect its density?
- Does the type of liquid affect melting rate?
- Does the color of a liquid affect its melting rate?
- Does the shape of an ice cube affect its melting rate?
- Does the shape of an object affect its buoyancy?
- Does sugar preserve the freshness of cut flowers?
- Does the type of metal affect the rate at which corrosion occurs?
- Does the type of water affect the rate at which corrosion occurs?
- Does color affect the rate at which an object fades?
- Does the shape of a container affect the freezing rate of water?

Energy – Strand B

- Does the type of metal affect the conduction of heat?
- What type of material is the best insulator?
- What type of material produces the most static charge?
- Does color affect heat absorption?
- Does the type of material affect the flow of electricity?
- Does color affect the absorption of heat?

Force and Motion – Strand C

- Does the design of a paper airplane affect the distance it will fly?
- Does the type of object affect the speed with which the object falls?
- Does the type of surface affect the distance a ball rolls?
- Does the mass of an object affect how fast it travels?
- Does the size of a wheel affect its speed?
- Does the amount of air affect a basketball's bounce?

Does the length of the effort arm of a lever affect the amount of effort it takes to lift an object?

Does the temperature of a magnet affect its strength?

Processes that Shape the Earth – Strand D

Does the type of soil affect erosion?

Does the type of soil (sand, dirt, soil) affect how much heat it absorbs?

Does the type of material (baking soda vs. baking powder) affect the speed at which a volcano erupts?

How living things interact with their environment – Strand G

Does the type of soil affect plant growth?

Does the size of seeds affect plant growth?

Does light affect plant growth?

Does amount of water affect plant growth?

Does the type of water affect plant growth?

Does the type of liquid affect plant growth?

Does the color of light affect plant growth?

Does the type of light affect plant growth?

Does light direction affect plant growth?

Does temperature affect plant growth?

Do vitamins affect the germination of seeds?

Does magnetism affect plant growth?

Does soil type affect how much water soil can hold?

Does electromagnetic radiation (microwaves) affect the germination rate of radish seeds?

Do different types of plant food affect plant growth?