

Physical Sciences

- How much weight can a helium balloon lift?
- Can the design of a paper airplane make it fly farther?
- Do wheels reduce friction?
- What holds two boards together better a nail or a screw?
- Do all objects fall to the ground at the same speed?
- How much salt does it take to float an egg?
- Does water with salt boil faster than plain water?
- Does an ice cube melt faster in air or water?
- Can you tell where sound comes from when you are blindfolded?
- Can things be identified by just their smell?
- Does the length of a vibrating object affect sound?
- Will more air inside a basketball make it bounce higher?
- Do all colors fade at the same rate?
- Does the shape of a kite affect its flight?
- What gets warmer faster - sand or soil?
- Will a ball bounce higher if it is dropped at a greater distance from the floor?
- Do sugar crystals grow faster in tap water or distilled water?
- Will a rubber band stretch the same distance every time that the same amount of weight is attached to it?
- Which type of line carries sound waves best?
- Which metal conducts heat best?
- What keeps things colder - plastic wrap or aluminum foil?
- For how long a distance can speech be transmitted through a tube?
- Does the color of a material affect its absorption of heat?
- Does sound travel best through solids, liquids or gases?
- How much heat is absorbed by a closed automobile?
- What materials are the best conductors of electricity?
- Does the salt in ocean water affect buoyancy?
- Does salt affect the boiling point of water?
- Will an ice cube melt faster in fresh water or salt water?
- Does the starting temperature of water affect how long it will take to freeze?
- Does a dry cell battery last longer if it is used continuously or if it is turned on and off periodically?
- Which ramp coating would offer the least resistance to a rolling toy car, sandpaper, wax paper or aluminum foil?
- Demonstrate how to make potatoes light up a small light bulb.
- How many fruits are needed to generate enough electricity to run a clock?
- Can you separate salt from water by freezing?
- Will water with salt evaporate faster than water without salt?