



Friction Worksheet

New words

Friction static sliding rolling fluid lubrication
streamlining aerodynamic smoothening polishing
aeroplane

Friction

Friction is a force that affects how things move. Friction happens when two objects rub against each other and it makes objects slow down or stop.

There are different types of friction. Static friction happens when two surfaces are not moving relative to each other, like when you try to push a heavy box and it doesn't move easily. Sliding friction occurs when surfaces slide against each other, and it can make it harder to push or pull things. Rolling friction is what happens when something rolls over a surface, like when a bike tire rolls on the road. Fluid friction occurs when objects move through a liquid or gas, e.g. aeroplane in the air and when you swim under water.

Ways to reduce friction include lubrication, which means putting oil or grease between surfaces to make them slide or roll more easily. Another way is by streamlining, which means changing the shape of objects to reduce air resistance. For example, making a car or airplane more aerodynamic helps them move more smoothly through the air. Smoothing surfaces by polishing or making them less rough can also help decrease friction.

Friction is important in many aspects of our lives. It helps us walk, ride bikes, and even grip objects. But sometimes we want to reduce friction to make things move more easily. We learned that friction is not always a bad thing, and we need to find a balance.

What is friction?

List and describe the types of friction



Assignment or Class discussion

Discuss a time in your life you needed to increase or reduce friction and the methods you used to do that.