



Unit: Friction

1. Match the following:

A	B
Newton	Friction caused by water particles
Air resistance	a force that opposes or slows down another force.
Friction	to design or build something with a smooth shape so that it moves with minimum resistance through air or water
Water resistance	It is the unit of force.
Streamline	Friction caused by air particles

2. Look at the diagram of the bicycle and put the parts of bicycle in correct column



Useful Friction	Not Useful Friction

3. State whether True or False:

- a. Friction causes heat.
- b. Oil or lubricant reduce friction
- c. Gravity is the pull of the earth toward its center
- d. Rough and soft surfaces have LESS friction
- e. Gravity, friction and magnetism are the kinds of force.
- f. Smooth surface have lesser friction.
- g. Friction stops things from sliding.

4. Write A-increases friction and B-decreases friction

- () oily surface () rubber doormat () rough road
() shiny cemented floor () wet hallway () floor with wax



5. Look at the shape of this boat. Do you think it is designed to...

- a. help the boat go faster
- b. make the boat slower
- c. not make any difference to the speed

Fill in the missing spaces with the words from the hot air balloon below:

Friction and Air Resistance

Friction gives up grip between two _____. Friction produces _____. Friction is very useful on our shoes. It stops us _____ across the floor. It's a useful grip for car _____ on the road. When skiing or ice _____ we would like to _____ the amount of friction to make it easier to slide.

If roads are icy, cars can slip and slide because there is less _____ on ice than on tarmac.

Air _____ is the friction between the _____ and objects moving through it.

A car is _____ in shape to allow air to pass over it more freely, whereas a _____ needs a large area of air resistance to _____ it down.

