## 1. What are some technological advances for?

Which technological advance allows us to

regulate the temperature in our homes?

send a letter in just a few seconds?

.save water in our homes?

preserve food for longer?

have a conversation at a distance?



## 2. Complete the text with the correct words.

Forces can make	objects change	or break. They can also make	them start or stop moving, or o	hange speed or	
	and resistance are	that slow down moving	objects. t	ells us how fast an objec	ct moves.
	is the force which	all objects towards the co	entre of the Earth.		
	save us time and effort. Mad parts. Some of the main oper	hines have some parts in common, rating parts are wheels,	for example, the structure, elec	ctrical circuits, and	P.T.
Modern	position and the second	ferent purposes. The main parts of	structures are the	, columns or	
pillars, beams, an		our homes, our free time activities	and the way we	47	

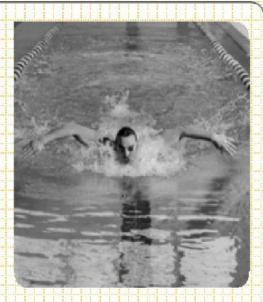
Friction Gravity Speed Machines attracts communicate shape gears structures forces foundations operating advances direction

## Friction in sports

Friction is a force that slows down the movement of an object (or a person) in contact with a surface or another object.

Surface friction affects sports in which an object, such as a ball, wheel or sled, rolls or slides. For example, if you kick a football on grass, friction between the ball and the grass causes the ball to slow down. Friction differs depending on the surface, the smoother the surface, the less friction there is.

Air resistance plays a big role in ball sports or in sports in which a person moves through the air, such as running or cycling, and water resistance affects aquatic sports such as swimming.



In some sports, it is advantageous to decrease friction, for example, in skiing or ice skating. Skis are treated with wax so that they slide faster, and skate blades are sharpened to reduce friction. In other sports, it is better to increase friction. For example, in football, players wear shoes with study, and goalkeepers wear special gloves.

- Read the text and answer the questions.
  - a. When does friction slow down the movement of an object?
  - b. Is friction greater on ice or on sand? Why?
  - c. Why do skiers wax their skis?
  - d. Why do you think goalkeepers wear special gloves?

