

FEEL THE FORCE!

Watch the video and answer the following questions about forces. <http://www.teachers.tv/video/12101>

1	What can forces do to things?
	Bend, twist, and move them. Change their shape. Pull up or down. Stop things moving.
2	What is the best-known force?
	Gravity.
3	What is the unit of measurement of force?
	Newtons.
4	What force does a skateboarder rely on to stay on the board?
	Friction.
5	How does Emma the skateboarder maximise friction between her and the board?
	Grip tape and flat rubber soles.
6	Where is friction NOT a good thing for a skateboarder?
	In the wheels.
7	Why does Emma put wax on the 'grind' bar?
	To reduce friction and help the board slide along the bar.
8	How fast does a skydiver travel in free fall?
	200 km/h – twice the speed of a car on the motorway.
9	Look at the skydivers in free fall. Why does it look like they are just floating?
	Because the cameraman is freefalling at exactly the same speed.
10	What does the force of air resistance do to the skydiver?
	It pushes him back upwards.
11	What does a parachute do, increase or decrease air resistance?
	Increases air resistance.
12	Which part of the parachute has the effect of slowing the parachutist down?
	The canopy.
13	What parts of our bodies can we use to exert forces on things?
	Muscles.
14	What is the stringy bit called that attaches the muscle to the bone?
	Tendon.
15	When a sledge is accelerating down a slope, which force is greater, gravity or friction?
	Gravity.
16	How do skiers and sledgers overcome the force of gravity to have another go?
	By using the ski-lift.

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