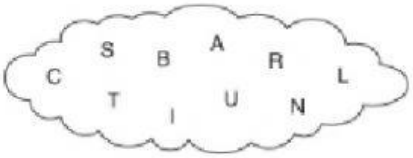
1 Tick the boxes to show when friction is useful and when it is not useful.

		Useful	Not useful
a	Friction between your shoes and the floor.	☐	☐
b	Friction between the tyres of a bicycle and the road.	☐	☐
c	Friction in the axle of a bicycle wheel.	☐	☐
d	Friction between skis and the snow.	☐	☐
e	Friction between brake pads and a bicycle wheel.	☐	☐

2 Oil and grease are _____ that help to reduce friction.



3 Friction can be increased or decreased. Tick the boxes to show how each change will affect the friction.

		Increase friction	Decrease friction
a	Using a special rubber for climbing shoes.	☐	☐
b	Rubbing smooth wax onto the bottom of downhill skis.	☐	☐
c	Oiling the axles of a bicycle.	☐	☐
d	Getting a bicycle's brakes wet.	☐	☐
e	Polishing a playground slide to make the surface smoother.	☐	☐

4 Friction produces _____ and _____ and can _____ things away.

LIVEWORKSHEETS