

Putting it all together

Summing up

Copy and complete the statements below to compile a summary of this unit. The missing words can be found in the word list below.

1. Forces can start motion, _____ motion, speed up or slow down motion, change the direction of motion, change the _____ of an object or have no visible effect at all.
2. _____ can attract some substances, including iron.
3. Magnets have a _____ pole and a _____ pole.
4. Magnets have a magnetic _____ around them that can be detected with a compass.
5. Magnetic and _____ forces and gravity are forces that can act without objects coming into contact with each other.
6. A coil of wire wrapped around an iron core with an electric current running through the wire is an _____.
7. _____ is an upward push on an object by a fluid.
8. Surface _____ is a force which acts at the surface of a liquid, making the surface behave like a skin.
9. _____ is a rubbing force applied to a surface by another surface.
10. Friction can be reduced by applying _____ between surfaces.
11. An object that is shaped in a way to reduce its fluid friction is said to be _____.
12. _____ is the force that pulls objects towards the centre of the Earth.
13. _____ is measured in kilograms while weight is a force measured in newtons.
14. Air resistance is an example of _____ friction which acts on objects moving through air.

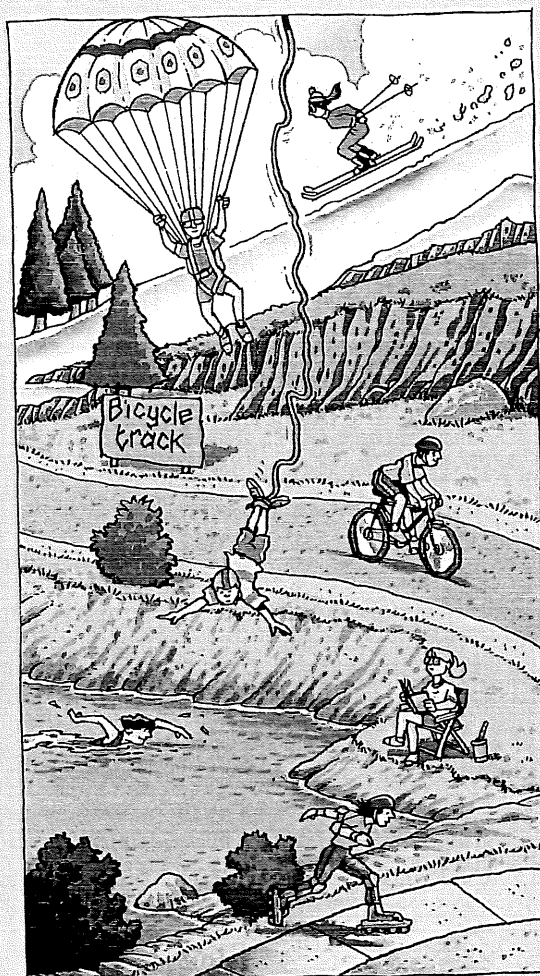
Word list

north	mass	field	stop
electrostatic	magnets	fluid	electromagnet
friction	buoyancy	lubricants	gravity
south	tension	streamlined	shape

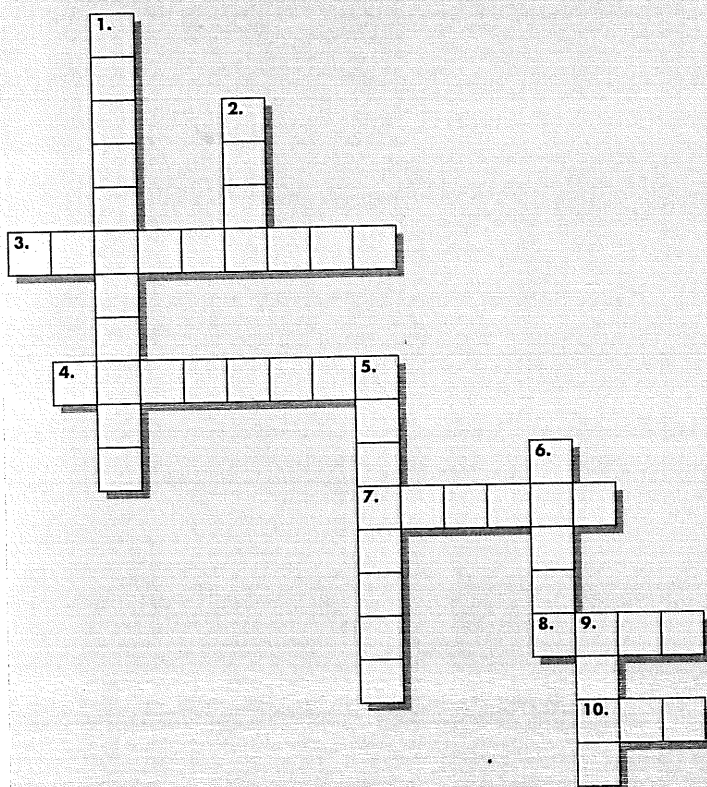
Looking back

1. In your workbook complete a table listing the forces acting on the seven people in the illustration. You should be able to find at least 18 forces.

What the person is doing	Forces acting on the person (Use a diagram with labelled arrows to represent the forces.)
1.	
2.	
3.	
4.	
5.	
6.	
7.	



2. Complete the crossword, using the clues below right.



Clues

Across

3. This piece of equipment will reduce terminal velocity if you jump from a great height (9)
4. A unit of mass (8)
7. The unit of force (6)
8. Objects do this if the buoyancy force isn't as large as their weight (4)
10. A common lubricant (3)

Down

1. Needed to make an electromagnet (11)
2. A force is either a pull or a _____ (4)
5. The term for materials that are affected by magnetic fields (8)
6. Magnets have two of these (5)
9. A magnetic metal (4)