

Learning checklist Forces 2

Level 4

- I can measure the size of a force and use the right units.
- I can compare the speeds of different things.
- I can describe what speed means scientifically and use the correct units.
- I can use the relationship between speed, distance and time.

Level 5

- I know some key facts about pressure.
- I can describe how to lower pressure by spreading a force out over a larger area and how to increase pressure by concentrating a force.
- I can describe situations where forces are balanced or unbalanced.
- I know that if the forces on an object are balanced, then it moves at a constant speed.

Level 6

- I can describe how pressure works in gases.
- I can explain how hydraulic machines work.
- I can describe how to balance a see-saw.
- I can describe what happens to the turning effect of a force using a longer lever.
- I understand the idea of moments to explain how things balance.

Level 7

- I can calculate pressure using the equation. $P=F/A$
- I can use the relationship between pressure, force and area in different situations.
- I can apply the principle of moments to explain situations.
- I know that if an object's speed changes, then the forces acting on it must be unbalanced.
- I know what acceleration is.
- I can draw distance–time graphs and interpret them correctly.
- I can use the equation for speed in calculations and I can convert different units.
- I can explain how turning forces are used in levers.