

**GCSE Physics B (Twenty First Century Science)**  
**J259/01** Breadth in Physics (Foundation Tier)

**Question Set 26**

1 Jamal is on a water slide.

(a) Fig. 1.1 shows the force of gravity (weight) acting on Jamal.

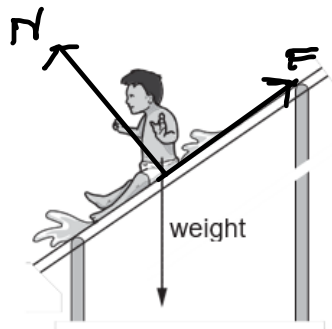


Fig. 1.1

(i) Add an arrow to Fig. 1.1 to show the normal contact force between Jamal and the slide. Label this arrow **N**.

[1]

(ii) Add an arrow to Fig. 1.1 to show the force of friction between Jamal and the slide. Label this arrow **F**.

[1]

(b) (i) State Newton's third law.

[2]

Whenever two objects interact, they exert equal but opposite forces on each other

(ii) Explain how Newton's third law applies to the force of gravity (weight) acting on Jamal.

[1]

An equal but opposite force acts on Earth

**Total Marks for Question Set 26: 5**

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