

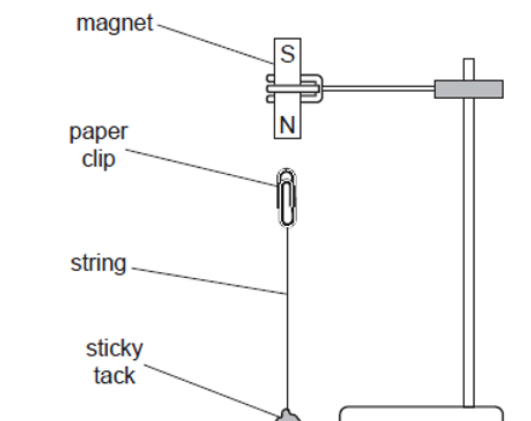
**GCSE Physics B (Twenty First Century Science)**  
**J259/01** Breadth in Physics (Foundation Tier)

**Question Set 34**

1

Sarah's teacher demonstrates some examples of forces.

She sets up the equipment shown below.



- (a) One of the forces acting on the paper clip is the attractive force of the magnet.

Name **two** other forces acting on the paper clip.

[2]

Weight and tension

- (b) Sarah's teacher says that forces always act in pairs.

The magnet provides a force of attraction which acts upwards on the paper clip.

[2]

Describe the other force in this pair.

Equal and acts in opposite direction

[1]

- (c) The teacher cuts the thread.

[1]

- (i) Predict what will happen to the paper clip. Moves upwards

- (ii) Give **one** reason for your answer to (c)(i).

Resultant force is upwards

**Total Marks for Question Set 34: 6**

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