

Name: _____

Quiz - KS2

Unit title: Unbalanced forces

Q1 Which forces are types of friction?

- A** Air resistance and gravity.
- B** Air resistance and water resistance.
- C** Water resistance and gravity.
- D** Gravity and friction.

Q2 Which factors affects gravity?

- A** Mass and distance.
- B** Surface area and speed.
- C** Roughness and weight.
- D** All of the above.

Q3 Which effect is caused by balanced forces?

- A** Changing speed.
- B** Changing shape.
- C** Stopping moving.
- D** Steady movement.

Q4 Which of these objects is not streamlined?

- A** A shark.
- B** A missile.
- C** A parachute.
- D** A sports car.

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Q5 Which size parachute will cause the most air resistance?

- A** Small.
- B** Medium.
- C** Large.
- D** None - they will have the same air resistance.

Q6 Which simple machine is primarily used to change the speed and direction of a force?

- A** Pivots.
- B** Levers.
- C** Pulleys.
- D** Gears.

Q7 Which of these simple machines uses a lever?

- A** Scissors.
- B** Bicycle.
- C** Flagpole.
- D** Windmill.

Q8 Which of these effects is caused by unbalanced forces?

- A** Changing speed.
- B** Changing direction.
- C** Changing shape.
- D** All of the above.

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|-----------|---|
| Q9 | Which of these is a non-contact force? |
| A | Air resistance. |
| B | Gravity. |
| C | Friction. |
| D | Water resistance. |

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Q10

Explain the effect shown by this diagram.

unbalanced

change in speed

gravity

forwards push

friction

Score: / 10