

NAME

DATE

MARK THE CORRECT ANSWER WITH AN X.

1 What is mass?

- ☐ a) the amount of space in an object
- ☐ b) the amount of matter in an object
- ☐ c) the relationship between the space and the matter in an object

2 What do we use to measure volume?

- ☐ a) digital scales
- ☐ b) a measuring cylinder
- ☐ c) scales and weights

3 To find the density of an object, what do we need to know?

- ☐ a) the object's mass
- ☐ b) the object's mass and volume
- ☐ c) the object's mass and weight

4 Why does a cork float in water?

- ☐ a) because the cork weighs less than water
- ☐ b) because the cork has less volume than water
- ☐ c) because the cork's density is lower than that of water

5 Gravity is...

- ☐ a) a force that acts at a distance.
- ☐ b) a contact force.
- ☐ c) an effect of density.

6 When a force is applied to an elastic object, the object...

- ☐ a) does not change shape.
- ☐ b) changes shape and then returns to its original shape.
- ☐ c) changes shape but does not return to its original shape.

7 Speed is...

- ☐ a) how fast an object moves.
- ☐ b) the movement of an object.
- ☐ c) the diameter of an object.

8 What is an airship?

- ☐ a) an aircraft that has blades
- ☐ b) an aircraft filled with hydrogen or helium that has an engine
- ☐ c) a balloon filled with hot air

9 What does an aeroplane have to overcome in order to fly?

- ☐ a) density
- ☐ b) lift
- ☐ c) its own weight

10 What is an aerodynamic shape?

- ☐ a) a shape that increases resistance to the wind
- ☐ b) a shape that increases resistance to the air
- ☐ c) a shape that reduces the amount of air friction over a moving object