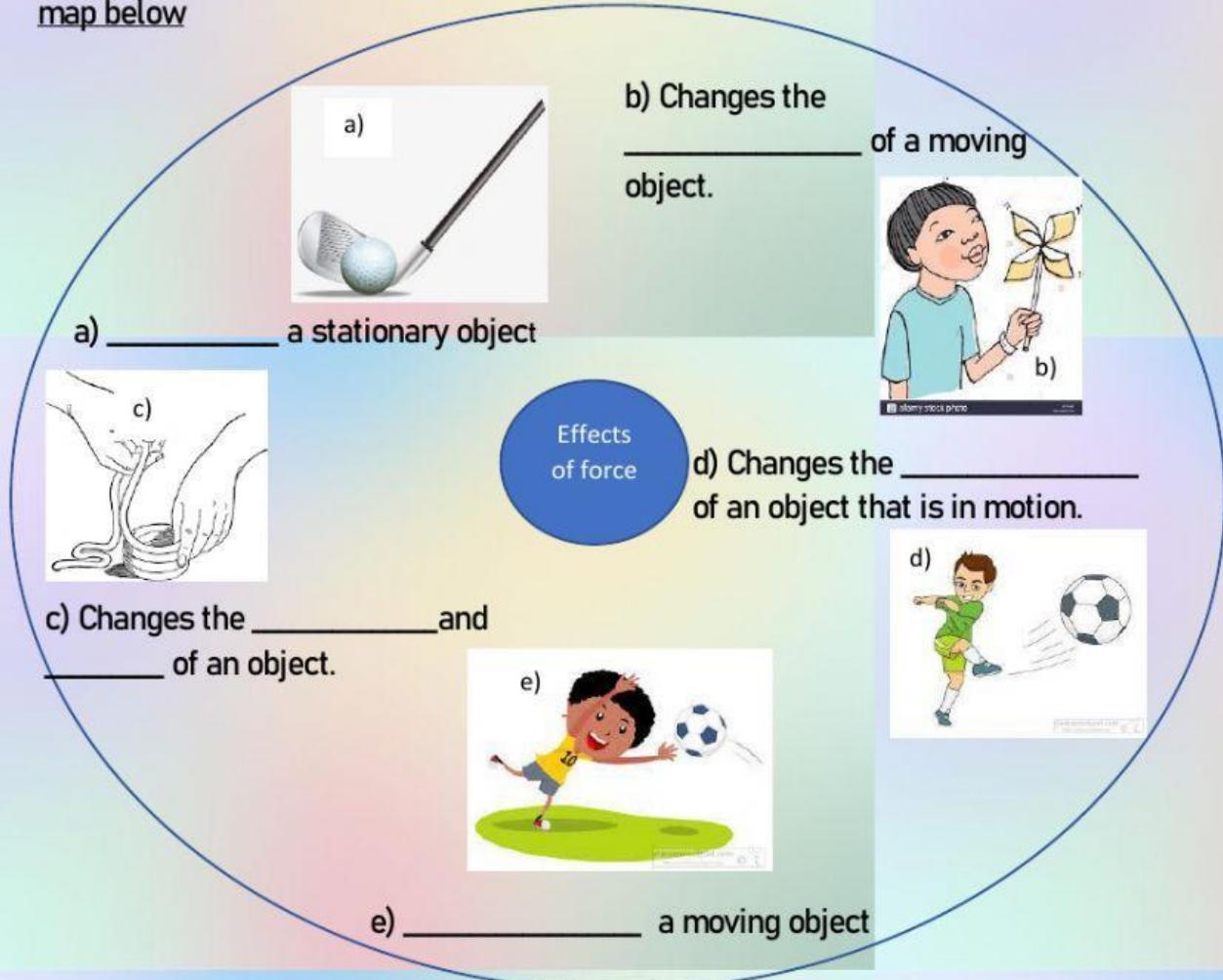


## 8.2 EFFECTS OF FORCE

1. Based on the pictures given, state the effects of force on objects in the circle map below



2. Diagram below shows the apparatus set up to determine the buoyant force.

What is the

a) real weight of object P?

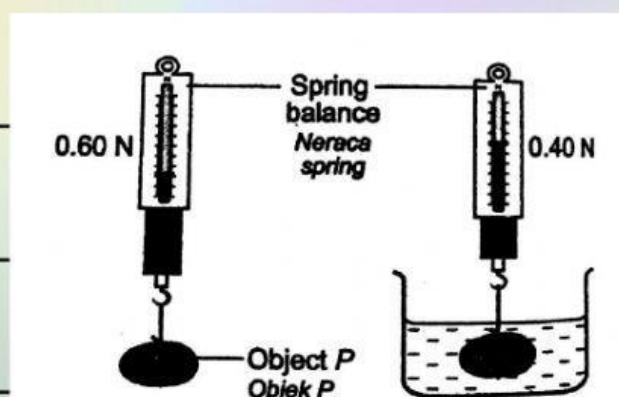
\_\_\_\_\_

b) apparent weight of object P?

\_\_\_\_\_

c) buoyant force of object P?

\_\_\_\_\_



3. Drag and drop with the correct answers.

change

moving

cannot

stationary

slow down

size

direction

effects

1. Force \_\_\_\_\_ be seen.

2. We can see the \_\_\_\_\_ of force.

3. Force can move a \_\_\_\_\_ object.

4. Force can change the shape, the \_\_\_\_\_ and the movement of an object.

5. Force can stop a \_\_\_\_\_ object.

6. The shape of aluminium can will \_\_\_\_\_ when crushed.

7. A car that moves fast will \_\_\_\_\_ when a frictional force on its tyres increases.

8. A rider applies a force to her bicycle so that it changes its \_\_\_\_\_ during making a U-turn.

4. Choose the correct answers on buoyant force.

a) An object which is less dense than the fluid will experience a buoyant force \_\_\_\_\_ its weight. So the object will \_\_\_\_\_ the fluid.

b) An object which is denser than the fluid will experience of buoyant force \_\_\_\_\_ its weight. So the object will \_\_\_\_\_ the fluid.

4. The table below shows incomplete information from an activity about several objects that are measured using spring balance in the air and into the water.

Object	Wooden ladle	Screw	Marker pen	Plasticene ball
Actual weight (N)	10	4	6	8
Apparent weight (N)	0	3	0	2
Buoyant force (N)				

a) Complete the information in the table above based on the following formula:

$$\text{Buoyant force} = \text{actual weight} - \text{apparent weight}$$

b) List the objects that:

i) float on the water surface:

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ii) submerge in the water:

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