Final Test Science Preparation Science 6 Grader

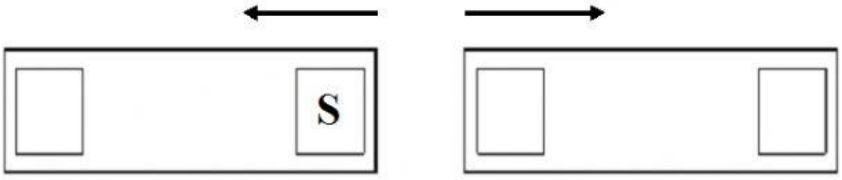
Full Name : _

Class : _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ **Attendance List** : _ _ _ _ _

Bismillahirrahmaanirrahim

Answer the questions based on the instruction given.

1. These two magnets **repel** each other.



   a. Write the correct poles on the diagram. One has been done for you.

   b. Sometimes magnets **attract** each other.

   What does attract mean! Choose one.

   The object closer to other ☐

   The object not move ☐

   The object go away from other ☐

2. Which of the following are examples of forces? Choose **three** answer.

   a. A man pulling a box.

   b. The mass of a wood.

   c. A magnet attracting.

   d. A nail striking.

3. Draw a line to match each box to the correct unit!

Mass	Seconds
Friction	Kilogram
Weight	Newton
Time	

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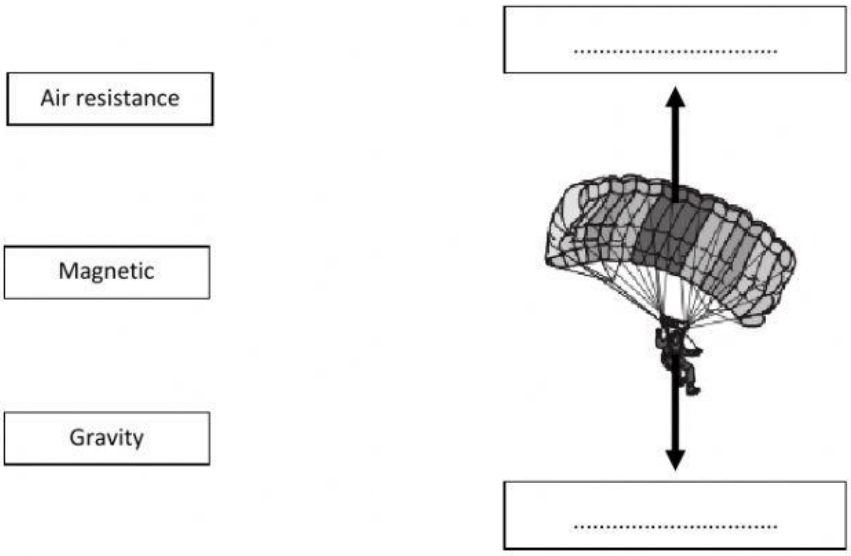
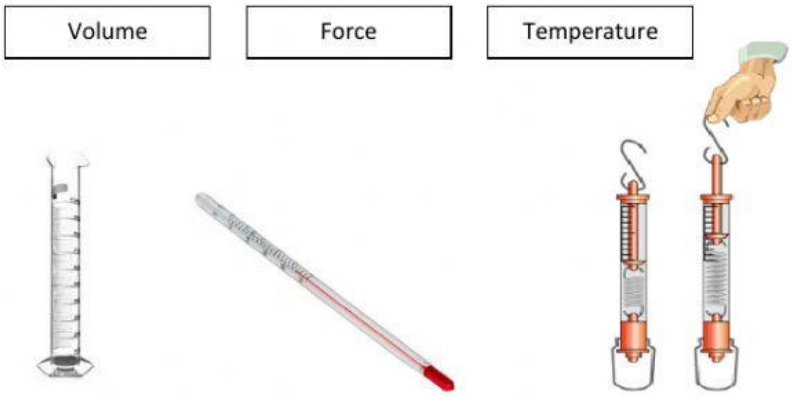
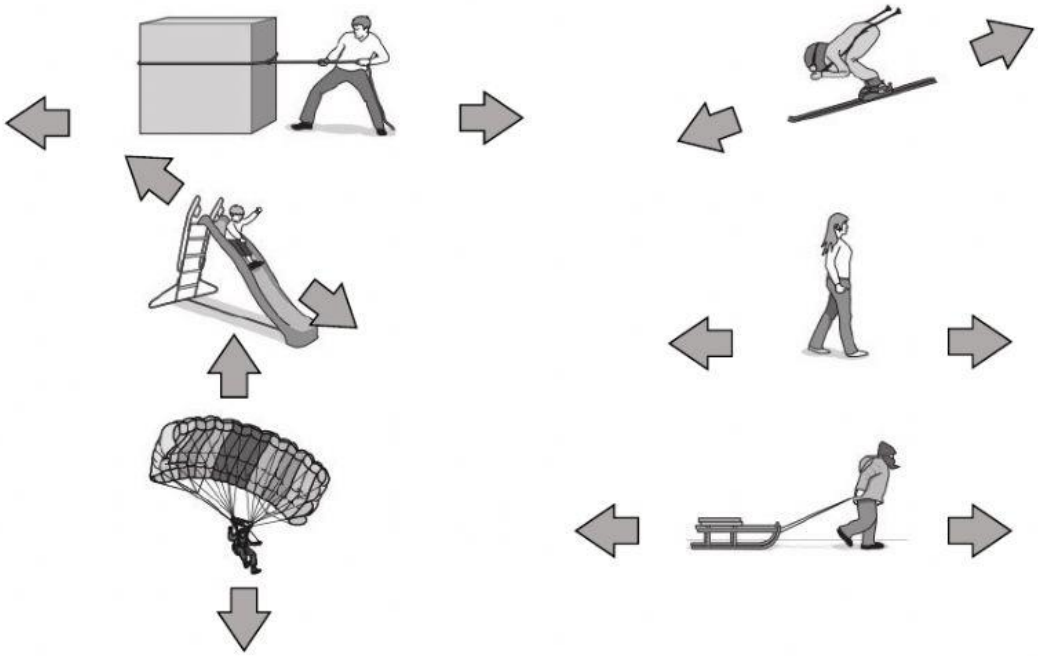
4. Draw a line to match each box to the correct force that work on the skydiver!



5. Draw a line to match each box to the correct appartus.



6. Draw an arrow to show the direction of the **friction** force!



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7. A rubber ball bounces on different surfaces. A ball dropped onto different surfaces.

Here are results.

Surface	Height ba bounces in cm
Grass	30
Soil	45
Concrete	55
Ceramics	60

a. Write down the surfaces in order of how high the ball bounces. (Choose the surface from the table).

- Highest : .....
- Lowest : .....

b. What else do to make investigation fair? Choose **two** answer.

a. Use the different size of the ball

b. Use the same size of the ball

c. Drop the ball from different hight

d. Drop the ball from same hight

8. Hamzah investigate friction. He pull a block using a forcemeter.

Here are his results.

Surface	Force needed
Carpet	5.0
Wood table	3.5
Glass table	2.0

(a) Complete the sentence to write a conclusion for this investigation.

" The softer the surface, the the force needed ... .

a. bigger

b. smaller

c. same

(b) Predict what will happen when he use a **wood chair** as a surface!

Choose one.

- the force needed will be about 2.0 ☐
- the force needed will be about 3.5 ☐
- the force needed will be about 5.0 ☐

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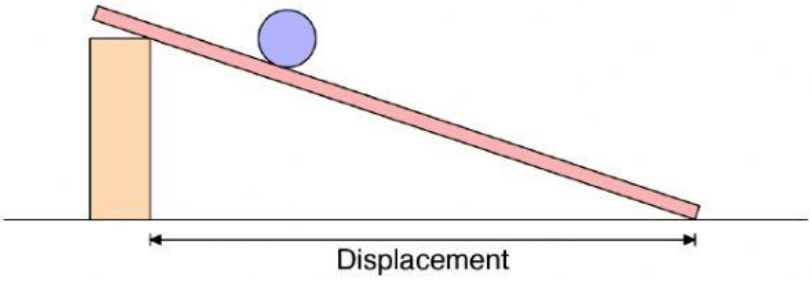
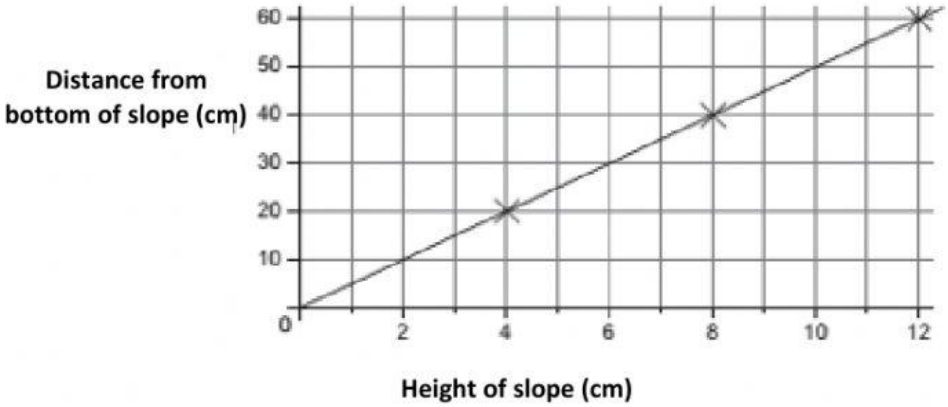
(c) Choose the surface from the table to complete the sentence.

The **smoothest** surface is surface ... because it need lowest force to pull.

9. Hasan investigates the distance a ball travels when it goes down a slope. Hee makes a slope 1 m long and 12 cm high. She releases a ball at the top of the slope and waits for it to stop.



All his results are shown on the graph



Hasan uses the graph to make predictions.

a. If the height of the slope is 8 cm.

What is the distance the car travels from the bottom of the slope? ... cm.

b. If the car travels 20 cm from the bottom of the slope, how high is the slope? ... cm.

10. Allayna investigates what happens when *Calcium Carbonat* is added to water. The result is temperature change when the mass of Calcium Carbonat change. Here are her result.

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Mass of Calcium Carbonat in gram	Temperature change in °C
1	3
2	5
3	7
4	7
5	11

a. Which result does **not** fit the pattern?

a. when the temperature change 5 **°C**

b. when the temperature change 7 **°C**

c. when the temperature change 11 **°C**

b. Mass of Calcium Carbonat when temperature not fit the pattern is ..... g.

c. Predict the correct temperature to fit the pattern.

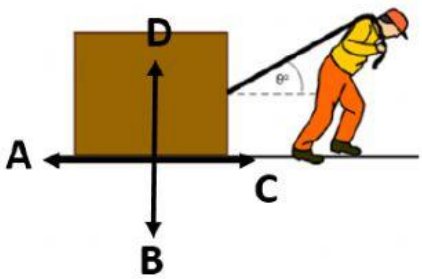
a. 5 **°C**

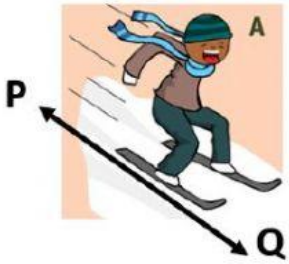
b. 9 **°C**

c. 13 **°C**

11. Rasya investigate friction.

He is investigate the direction of friction.





Based on the diagram the letter that show the direction of **frictional** force is .... and .... .

12. Hilal and Amar investigate how high a rubber ball bounces on different surfaces.

Hilal and Amar drop the ball from the same height.

The first bounce of the ball showed this diagram.

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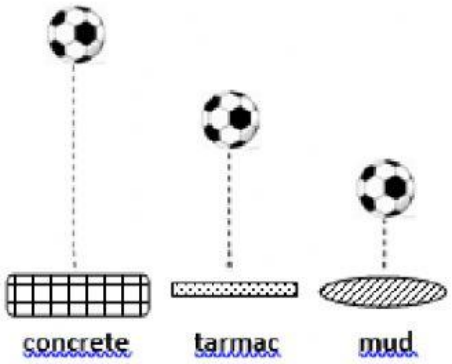


Write down the surfaces in order of how high the ball bounces.

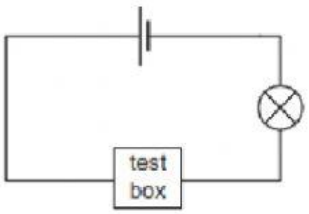
From the highest is … .

a. Concrete – tarmac – mud

b. Tarmac – mud – concrete

c. Mud – tarmac - concrete

13. Pierre is testing which materials are electrical conductors. He builds this electrical circuit.



Choose four materials to replace the test box and make a complete circuit.

a. Steel

b. Iron

c. Stone

d. Plastic

e. Lead

f. Copper

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