

Grade 9 NS REVISION



TASK 1 Answer the following questions

Question 1: Gravity, magnetic and electric forces are similar because they are :

- A. Attractive forces only
- B. Repulsive forces only
- C. Produced by charges
- D. Distance forces

Question 2: The force that is only attractive is:

- A. chemical
- B. magnetic
- C. electrostatic
- D. gravitational

Question 3: . Circle the best answer related the figure below:



- 3.1. The forces shown above are **PUSHING / PULLING** forces.
- 3.2. The forces shown above are **WORKING TOGETHER / OPPOSITE FORCES**.
- 3.3. The forces are **EQUAL / NOT EQUAL**.
- 3.4. The forces **DO / DO NOT** balance each other.
- 3.5. The resultant force is **1000 N TO THE RIGHT / 1000 N TO THE LEFT / ZERO**.
- 3.6. There **IS / IS NO** motion.

Question 4: Circle the best answer related the figure below:



- 4.1. The forces shown above are **PUSHING / PULLING** forces.
- 4.2. The forces shown above are **WORKING TOGETHER / OPPOSITE FORCES**.
- 4.3. The forces are **EQUAL / NOT EQUAL**.
- 4.4. The forces **DO / DO NOT** balance each other.
- 4.5. The stronger force is pulling to the **RIGHT / LEFT**.
- 4.6. The weaker force is pulling to the **RIGHT / LEFT**.
- 4.7. Motion is to the **RIGHT / LEFT**.

2. Global warming can have serious consequences to life on earth. Discuss this with reference to:

- 2.1 Climate change
- 2.2 Coastal flooding
- 2.3 Food shortages
- 2.4 Mass extinctions

(4 x 4 = 16)

3. Draw a diagram to show the layers of the atmosphere and name each layer.

(10)

4. Gases of the atmosphere:

The atmosphere is a mixture of gases. The composition of the atmosphere is as follows:

Nitrogen: 78%; Oxygen: 21%; Other gases

4.1 Calculate the amount of "other gases".

(2)

4.2 Draw a pie chart showing the composition of the atmospheric gases using the values given.

(7)