

Physical Science Assignment 2-1,2-2

Read sections 2-1 & 2-2. Then, based on the information in your textbook, answer the following questions :

Name _____

Class Period _____

Date _____

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1. What is ***matter***?

2. What is the meaning of the term ***property***?

3. What are four ***general properties of matter***?

4. Explain the difference between ***mass*** and ***weight***.

5. What is the meaning of the term ***inertia*** ?

6. What is the metric unit for ***weight***?

7. Why would a person weigh more at sea level than on a mountain top?

8. Explain why a person would weigh less on the moon than on earth.

9. Explain the relationship between 1 kg of mass and 9.8 N of force (on earth).

Please continue on the other side.

10. Write the definition for **mass**.

11. Which object has more **mass**.... a common cement block or a feather?

12. Which object has more **matter**... a common cement block or a feather?

13. Which object has more **inertia**... a common cement block or a feather?

14. If we increase the mass of a cement block by filling the holes with concrete, what effect will this have on the **inertia** of the cement block?

15. Describe how we could decrease the mass of a potato.

16. Explain what happens to the mass of a person when they travel from the earth to the moon.

17. Explain why the moon has less gravity than the earth.

18. Explain what happens to the weight of a person that travels from the earth to the moon.

19. How many newtons would a cement block weigh if it had a mass of 30 kg?

Show your calculations.

20. Explain why we can say that both **engines** and **seat belts** in cars are **anti-inertia devices**.