

Honors Physical Science
1.1 – The Scientific Method
1.2 – What is Science?
Assessment

Name: _____ Period: _____

DIRECTIONS: Answer each of the following questions completely. All work must be shown to receive full credit on any quantitative

1. What is the goal of the scientific method?
2. How does a scientific law differ from a scientific theory?
3. Why are scientific models useful?
4. How does the scientific process start and end?
5. How are science and technology related?
6. What are the branches of natural science?
7. (Inferring) Explain the advantages and disadvantages of subdividing science into many different areas.

8. (Classifying) Is the study of the muscle movements in the human body an example of biology or physics? Explain.
 9. (Critical Thinking) Write a paragraph answering why advances in science are not always immediately followed by advances in technology. Include why such scientific advances are still valuable.
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8. If you melt 1 kg of snow you get 25 L of water. How many ml of water do you get from melting 550 g of snow?
 9. It takes 0.2 s to photocopy the page of a book. How long, in ms, does it take to photocopy the entire Harry Potter series (4,224 pages)?
 10. Larry and Lonny went out for their morning runs to the doughnut shop. Larry ran for 356 m. Lonny lives in a different part of town, so his run is 45,760 cm. Who lives farther away and by how much in meters?
 11. Lenny says he can lift 1,450 g over his head. Lanny thinks this is no big deal, as he can lift 1.3 kg over his head. Who is stronger?