

Directions: Answer the following questions using complete sentences.

1. What do scientists believe about the universe?
2. How are cathode rays produced?
3. How do scientists detect cathode rays?
4. Why do you cover the tube with black paper?
5. What do you do before experimenting?
6. What does the nearby light tell Roentgen?
7. What did Roentgen do after he found the rays?
8. What is the purpose of science?
9. What are the three main branches of natural science?
10. What do the branches of physical science study?

11. What is wrong with the neat organization in Figure 1-3?
12. What is the difference between science and technology?
13. How is a scientific theory different than the *theory* we use in everyday speech?
14. What tests must a theory pass?
15. How is a scientific law different from a theory?
16. What is a quantitative statement?
17. How does mathematics make science easier?
18. When do you change or replace a theory?
19. What is a scientific model?
20. What types of models are there?