Name _____ Date _____ Bell _____

Unit 1: Lesson 1- What is Science?

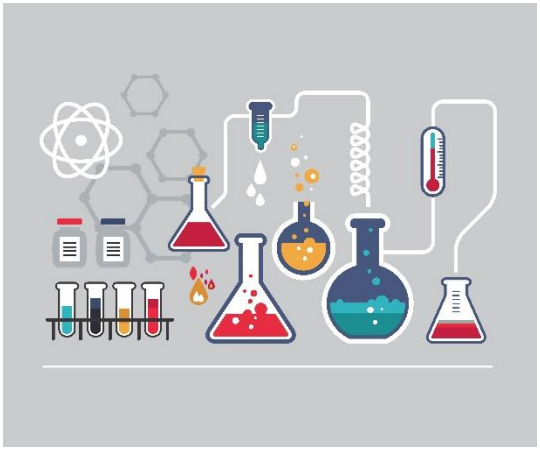
Vocabulary

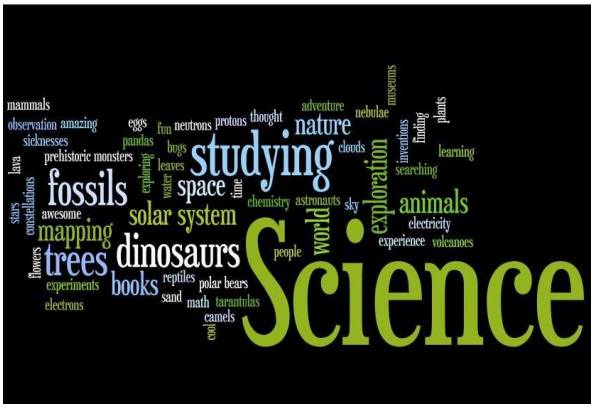
1. Investigation (page 4)-
   _____
   _____
   _____

2. Science (page 5)-
   _____
   _____
   _____

3. Evidence (page 6)-
   _____
   _____
   _____

4. opinion (page 9)-
   _____
   _____
   _____





What All Scientists Do Page 4-5

1. What do all scientists do?

   _____
   _____
   _____

2. What is a paleontologist?

   _____
   _____
   _____

3. What are some skills that scientists use in science?

   _____
   _____
   _____

4. How does a scientist use their observation skills?

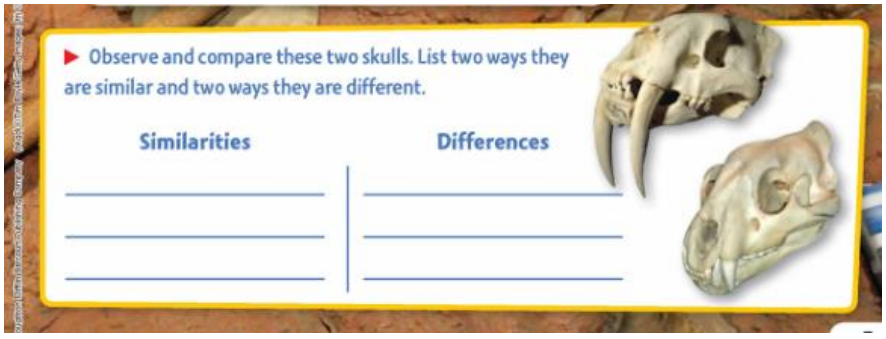
   _____
   _____
   _____

5. How do scientist use their comparison skills?

   _____
   _____
   _____

6. Why do scientists conduct investigations?

   _____
   _____
   _____



Prove It! Page 6-7

7. What is the difference between direct and indirect evidence?

   _____
   _____
   _____

8. In 1660, what was the belief about where maggots came from?

   _____
   _____
   _____

9. Who was Dr. Redi and what did he discover?

   _____
   _____
   _____

10. When Redi set up his experiment, he arranged two setups, what were they?

    _____
    _____
    _____

11. What was Redi's evidence to support his conclusion that living things could not come from nonliving matter?

    _____
    _____
    _____

12. When Redi said that living things can only come from other living things, where would he say maggots came from?

    _____
    _____
    _____

A Sticky Trap Page 8-9

13. What are three things scientists need to consider before drawing conclusions?

_____
_____
_____

14. What are inferences?

_____
_____
_____

15. Suppose you read a book about how spiders around the world get food. How might this help you draw different conclusions from those you might draw by only observing spiders around your home?

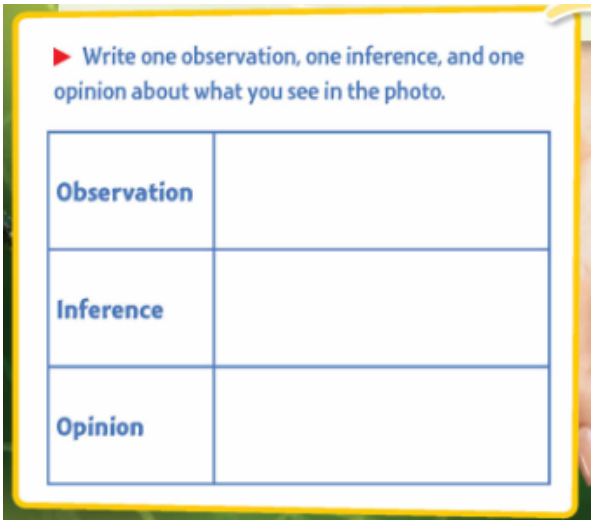
_____
_____
_____

16. What is the difference between logical reasoning and an opinion?

_____
_____
_____

17. Why should scientists repeat their investigations?

_____
_____
_____



Knowledge Grows Page 10-11

18. Who was Stephen Gray and what was he known for?

    _____
    _____
    _____

19. Why do you think he chose metal wires to demonstrate how electrical energy could travel?

    _____
    _____
    _____

20. Why is communication important in science?

    _____
    _____
    _____

21. List several ways that we can communicate today.

    _____
    _____
    _____

22. Which of these methods might have been available to Stephen Gray in 1720 in how he would have communicated his results?

    _____
    _____
    _____

23. Why is it important that scientific knowledge grows?

    _____
    _____
    _____

Meet Scientists pages 12-13

24. What is an astronomer?

_____
_____
_____

25. What is a botanist?

_____
_____
_____

26. What is a taxonomist?

_____
_____
_____

27. What is a zoologist?

_____
_____
_____