

Chapter 1.1 Scavenger Hunt (6th)

Date _____

Last Name _____, First _____ per _____

Pre-read chapter 1. Starting on page 1 and find the answers to the scavenger hunt clues.

1. What is the **title** of chapter 1? _____
2. What is the “**Big Idea**” of chapter 1? _____

3. **Check what you know.**
 - a. Write 2 ways the sun affects the Earth's oceans?
 1. _____
 2. _____
 - b. Write 2 ways the sun affects the Earth's atmosphere.
 1. _____
 2. _____
 - c. Explain how you would design a simple experiment to test one of your hypothesis.

4. **Build Your Science Vocabulary”**
 - a. What is the vocabulary skill being discussed in the “section on page 2?

 - b. Complete the table.

Word	Definition	Example Sentence
area		In what _____ of the city is your school located?
	<i>n.</i> A fact to be considered	In a race, one _____ to think about is the distance you will run.
occur	<i>n.</i> to take place; to happen	Scientists predicted that an earthquake might _____ at the site.

- c. What words in the table would best complete the following sentences?
 - i. Keep your work _____ clean and safe during a laboratory experiment.
 - ii. Accidents sometimes _____ in a science laboratory.
 - iii. Price is a _____ to be considered in buying baseball tickets.

5. How many **key terms** are in chapter 1 ? _____
6. What kind of map is shown on page 3? _____

7. **“How to Read Science”** page 4
 - a. What is the reading skill being discussed? _____
 - b. Complete the graphic organizer..

Section 1: What is Science?		
Heading	Question	Answer
Thinking like a scientist	What _____ skills do scientists use to learn about the natural world?	Scientists use skills of _____, _____, and _____ when learning about the natural world.

8. **Standards Investigation**
 - a. If you tried the challenge on page 5 , what would be your goal?

9. What is the **title of section 1.1** _____
10. **California Standards Focus** (3green/yellow keys) *Complete the sentences.*
 - a. What _____ to scientists use?
 - b. What is scientific _____?
 - c. How do scientific _____ differ from scientific _____?
11. **Red and blue headings** (*Make an outline of section 1.1. Copy the red headings(*), the blue subheadings(-), the yellow highlighted words(,), and then define each yellow highlighted word.*)

- *I. _____
- A. _____
1. **observing** _____

 2. **Inferring** _____

 3. **Predicting** _____

*II.

1. **scientific inquiry** _____

-A. _____

-B. _____

1. **hypothesis** _____

-C. _____

1. **controlled experiment** _____

2. **variable** _____

3. **manipulated variable** _____

4. **responding variable** _____

-D. _____

1. **data** _____

-E. _____

-F. _____

-G. _____

*III.

1. **scientific theory** _____

12. If you tried the **standards warm up** on page 6, What object would you be comparing the Earth to? _____
13. **A Green Key on page 7**
According to the green key what are 3 skills scientists use to learn more about the world and make scientific progress?
a. _____
b. _____
c. _____
14. **Figure 1 “Observing volcanic eruptions”**
a. How does Jane Margaret Mangan learn about Mount Kilauea?

- b. What is lava? _____
15. **Figure 2 “Giant Sequoias”**
a. Where do giant Sequoias grow? _____

- b. What do you think caused the hole in the tree shown in the photograph?

16. **Figure 3 “Controlled Burns”**
a. What caused the fire in the photograph in figure 3? _____

17. **Lab Zone Skills Activity Controlling Variables** (*Read about the experiment involving sequoia seedlings.*)
a. What is the manipulated variable in this experiment? _____

- b. What is the responding variable in this experiment? _____

18. **Figure 4 “Sequoia Seedlings and Cones.**
a. What event must happen in order for the sequoia seedling to sprout and grow on the forest floor? _____
19. **Math Analyzing Data**
a. What do the bars on the graph represent? _____

- b. What does the height of each bar on the graph represent? _____

- c. Which level of burn intensity led to the most seedling production? _____

20. **Figure 5 “Nature of inquiry”**
a. At any stage of a scientific inquiry, what may lead you to change a hypothesis?

21. **Figure 6 Law of gravity**
a. What force pulls water in a waterfall towards Earth's center? _____