

**7<sup>th</sup> Scavenger hunt chapter 5.1**

Date \_\_\_\_\_

Last Name \_\_\_\_\_, First \_\_\_\_\_ per \_\_\_\_\_

*Pre-read chapter 5.1 starting on page 148. Answer the questions.*

1. What is the **title of chapter 5**? \_\_\_\_\_
2. What is the **“Big Idea”** of chapter 5 \_\_\_\_\_  
\_\_\_\_\_
3. **Check what you know.**
  - a. What can you infer about the parents of the puppies in the picture on pages 148 and 149? \_\_\_\_\_
  - b. What can you infer about the puppies DNA? \_\_\_\_\_
4. **“Build Your Science Vocabulary”**
  - a. What is the vocabulary skill being discussed in the section? \_\_\_\_\_
  - b. Complete the table.

Suffix	Meaning of Suffix	Example
-ance, -ence		Importance, State of being important
	Inclined to, likely to	Dependent, Likely to rely on something or someone else.
-ity	State of, quality of	
		Production, Process of making

5. Study the **picture on page 151.**
  - a. Kangaroos are not normally white. What caused this kangaroo to be white?  
\_\_\_\_\_
  - b. The **punnett square** shows a cross between what kind of mammal? \_\_\_\_\_
6. **How to Read Science**
  - a. What is the reading skill being discussed in the “How to Read Science” on page 152? \_\_\_\_\_
  - b. What is one important idea found in the sample notes? \_\_\_\_\_  
\_\_\_\_\_
  - c. What question in the left column helps you recall that idea? \_\_\_\_\_  
\_\_\_\_\_

7. Make a list of the **10 key terms** in chapter 5 section 1
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
8. **Standards Warm Up**
- Based on your observations of the photo in the standards warm up activity, what do you think the kitten's father might look like? \_\_\_\_\_  
\_\_\_\_\_
9. Highlighted words page 154
- This word means the passing of physical characteristics from parents to offspring.  
\_\_\_\_\_
  - What is a **trait**? \_\_\_\_\_
  - What is **genetics**? \_\_\_\_\_
10. **Who is the man** in the picture on page 154? \_\_\_\_\_
11. Study figure 1 "Crossing Pea Plants"
- What **kind of plant** did Gregor Mendel cross? \_\_\_\_\_
  - How did Mendel **pollinate** his flowers? \_\_\_\_\_  
\_\_\_\_\_
  - What does the flower eventually turn into? \_\_\_\_\_
  - What were the **egg cells** in the pink flower **fertilized by**? \_\_\_\_\_  
\_\_\_\_\_
12. Highlighted words page 155
- What is **fertilization**? \_\_\_\_\_
  - What is a **purebred**? \_\_\_\_\_
13. Study figure 2 "Results of a Cross"
- How many generations** are shown in the figure? \_\_\_\_\_
  - Which is the **oldest generation** shown? \_\_\_\_\_
  - Describe the **stem height** of the two pea plants shown in the **P1 generation**.  
\_\_\_\_\_ and \_\_\_\_\_
  - Describe the **stem height** of the 2 offspring in the **F1 generation** \_\_\_\_\_
  - How many tall pea plants and short pea plants are shown in the **F2 generation**?  
\_\_\_\_\_ tall  
\_\_\_\_\_ short
  - Are the 2 plants shown in the **P1 generation purebreds**? \_\_\_\_\_
  - Do you think that the plants in the F1 generation are purebreds? \_\_\_\_\_  
explain \_\_\_\_\_

14. Highlighted words page 157
- What is a **gene**? \_\_\_\_\_
  - What is the term that refers to the **different forms of a gene**? \_\_\_\_\_
  - What is a **dominant allele**? \_\_\_\_\_
  - What is a **recessive allele**? \_\_\_\_\_
15. Green Key page 157
- How are an organisms **traits determined**? \_\_\_\_\_
16. Study figure 3 Genetics of Pea Plants
- Make a list of the **7 traits of pea plants** that are shown in the table.
    - \_\_\_\_\_
    - \_\_\_\_\_
    - \_\_\_\_\_
    - \_\_\_\_\_
    - \_\_\_\_\_
    - \_\_\_\_\_
    - \_\_\_\_\_
  - Concerning the trait "**seed shape**", what are the **two forms** of this trait that Mendel observed? \_\_\_\_\_ and \_\_\_\_\_
  - Concerning the trait "**pod color**", what are the **two forms** of this trait that Mendel observed? \_\_\_\_\_ and \_\_\_\_\_
  - Concerning the trait "**seed color**", what are the **two forms** of this trait that Mendel observed? \_\_\_\_\_ and \_\_\_\_\_
  - Concerning the trait "**seed coat color**", which color is controlled by a **recessive allele**? \_\_\_\_\_, a **dominant allele**? \_\_\_\_\_
17. Highlighted word on page 158
- What is a **hybrid** \_\_\_\_\_
18. **Skills Activity "Predicting"** page 158
- What kind of critters are being crossed? \_\_\_\_\_
  - Describe the wing of the male. \_\_\_\_\_
  - Describe the wing of the female. \_\_\_\_\_
  - Did the scientists cross purebreds or hybrids in the P1 cross? \_\_\_\_\_
  - Which trait is dominant? Long wings or short wings? \_\_\_\_\_
  - Predict what kind of wings the offspring in the F1 generation will have \_\_\_\_\_
19. Study **figure 4 "Black fur, White fur"**
- In rabbits, which allele is dominant black or white fur? \_\_\_\_\_
  - If you crossed these 2 rabbits, what color do you think the offspring in the F1 generation would be? \_\_\_\_\_ why \_\_\_\_\_
20. What is the "**Mendel Medal**"? \_\_\_\_\_