NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**4**

DATE \_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD \_\_\_\_\_\_\_\_\_\_\_\_

CCC #1: PATTERNS

1. Stop and look around, you will notice that there are patterns everywhere. Many of these patterns may be part of a design on clothing, a building structure, or room decorations.

**Discuss and share ideas of patterns with your group members. List your 3 favorite patterns.**

|  |
| --- |
| 1 |
| 2 |
| 3 |

2. In the world of science, observable patterns can help us understand the natural world and the development of explanations, models, and theories.

**As a group, discuss and fill in the blank spaces below.**

|  |  |
| --- | --- |
| Pattern in Nature | How does this pattern help scientists to explain and understand the natural world? |
| 1. Example: Repeating phases of the moon |  |
| 2. |  |

3. Pattern Practice: Fill in the blank spaces below.

|  |  |  |
| --- | --- | --- |
| Example | Is it a Pattern?Yes or No | If yes, explain how this pattern helps scientists to better understand the natural world. |
| Arrangement of ice crystals in a snowflake |  |  |
| Random series of events |  |  |
| Group of flowers all blooming in harmony |  |  |
| An unpredictable asteroid approaching Earth  |  |  |
| Spring, Summer, Fall, Winter...   |  |  |
| An unexpected drought in April |  |  |

PATTERN ACTIVITY

**WHAT DO YOU ALWAYS HAVE BUT ALWAYS LEAVE BEHIND???**

**Materials:** pencil, paper, tape, index finger

**Instructions:**

1.Use a pencil to scribble on a piece of paper until you have a nice black mark.

2. Rub your index finger in the black mark until the end of your finger is grayish/black.

3. Obtain 2 to 3 inches of tape and press it onto your black covered index finger.

4. Carefully remove the tape and **place it at the bottom of this paper**.

1. Describe what you see in your fingerprint? Is there a PATTERN in your fingerprint? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  |  |
|  |  |

 2. Compare your fingerprint with your

 group members. Draw the general

 shape of each of your fingerprints in

 the boxes.

3. How are fingerprints classified or categorized?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Explain how observing and identifying patterns in fingerprints may be helpful.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Stick tape with your finger print below.**