

INTRODUCTION TO GEOLOGY

Directions – Complete each of the following activities to gain a basic geology background.

Activity 1 – Forensic Geology

Use all of the materials in the packet to solve the mystery. You only have 15 minutes, so do not waste any time. Good Luck!

1. Write a paragraph (3 – 5 sentences) explaining how you identified the guilty suspect. Make sure to describe how the evidence and clues were used.

Activity 2 – The 4 Scotsmen

Directions – complete a simple google search to match the correct description to the correct geologist.

James Hutton	Sir Charles Lyell, 1st Baronet	John Playfair	Sir James Hall, 4th Baronet

1. What do all of the geologists have in common?

Activity 3 – Earth’s Story

Directions – use the amazing book of knowledge (red textbook) pages 134 – 136 to answer the following questions.

1. What branch of science studies Earth’s history?

2. What is uniformitarianism?

3. Explain the 4 processes James Hutton observed.
 - a.

 - b.

 - c.

 - d.

4. In Hutton’s time, how old did people believe the Earth was?

5. Describe catastrophism.

6. Who challenged the principle of catastrophism?

7. What is the difference between catastrophism and uniformitarianism?

8. Describe what modern scientists realize about uniformitarianism and catastrophism.