

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Geologic Time

The Physical Setting: Earth Science

## Supplemental: Absolute Dating III

**Directions:** Complete the chart below, which represents a model of a radioactive sample with a half-life of 5,700 years. The boxes labeled carbon-14 represent an undecayed radioactive material. After each half-life shade in the appropriate number of boxes to represent the decayed nitrogen-14.

Half-life	Number of Years	Unstable C-14	Stable N-14	Radioactive Sample																								
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**Question:** Why is carbon-14 used to date recent remains and not rocks that date back to early Earth?