Answer Sheet

| How long ago? | Event |
| :---: | :--- |
| 4.56 Billion Years Ago | Planets Form: All of the planets in the solar system form. |
| 4.5 Billion Years Ago | Formation of the Moon: Earth was hit by a planetary body half <br> Earth's width! Debris blown into space around Earth formed our Moon. |
| 4.5 Billion Years Ago | Oldest Moon Rocks: The Moon's magma ocean cooled, allowing a <br> crust to form. Apollo Astronauts collected Moon rocks from some of <br> this ancient crust. |
| 4.4 Billion Years Ago | Earliest Remnants of Earth's Crust: Tiny zircon grains within <br> sedimentary rocks of the Jack Hills of Western Australia formed about <br> this time. These zircon grains are the remnants of some of the Earth's <br> oldest crust. |
| 4.2 Billion Years Ago | Earth's Early Atmosphere and Oceans: Volcanos spewed gases - <br> including water vapor and carbon dioxide- into the atmosphere. When <br> the Earth's surface cooled down enough the water vapor condensed as <br> liquid water to form our oceans. |
| 3.5 Billion Years Ago | Lunar Volcanism Winds Down: While the Moon has been <br> geologically inactive for many millions of years, the youngest volcanic <br> flows are about 1 billion years old. |
| $30-50$ Years Ago | Earth's Moon Becomes Geologically Inactive: Okay, except for <br> occasional volcanism . . |
| About 200,000 Years Years Ago | One Giant Leap for Mankind: On July 20, 1969, Neil Armstrong was <br> the first human to set foot on the lunar soil of our Moon. |
| Ago | Homo sapiens (Modern Humans) First Appear: Hominids (upright <br> human ancestors) appear in the fossil record a couple of million years <br> earlier. |
| 1.5 Billion Years Ago | Oldest Rocks in the Grand Canyon: In the last 10 million years or <br> so, the Colorado River has cut a 1.5-kilometer-deep channel into <br> Earth's crust, slicing through almost 1.5 billion years of geologic <br> history. These oldest rocks, exposed at the bottom of the Grand <br> Canyon, provide geologists with evidence of ancient environments and <br> events. |
| Million Years Ago |  |
| dinosaurs went extinct, mammals increased in number and type. |  |

