



smith 	Topic/Objective CHAPTER:	NAME:
	Earth Terra	DATE
	WHO is the Mother of Nature	

**Essential Question**

Cue: Review: Thoughts: Main Idea	<b>NOTE Taking AREA:</b> <p><b>A.K.A. Gaia or, in Latin, Terra 3<sup>rd</sup> planet from the Sun</b></p> <p><b>Densest planet in the Solar System</b></p> <p><b>Largest of the Solar System's four terrestrial planets, and the only astronomical object known to accommodate life.</b></p> <p><b>The earliest life on Earth arose at least 3.5 billion years ago.</b></p> <p><b>Earth's biodiversity has expanded continually except when interrupted by 5 mass extinctions.</b></p> <p><b>Although scholars estimate that over 99 percent of all species of life (over five billion) that ever lived on Earth are extinct, there are still an estimated 10–14 million extant species, of which about 1.2 million have been documented and over 86 percent have not yet been described.</b></p> <p><b>Over 7.3 billion humans live on Earth and depend on its biosphere and minerals for their survival.</b></p> <p><b>Earth's human population is divided among about two hundred sovereign states which interact through diplomacy, conflict, travel, trade and communication media.</b></p> <p><b>According to evidence from radiometric dating and other sources, Earth was formed about 4.54 billion years ago.</b></p> <p><b>Within its first billion years</b></p> <ul style="list-style-type: none"> <li>• <b>life appeared in its oceans and began to affect its atmosphere and surface,</b></li> </ul>
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NOTES CONTINUE ON OTHER SIDE



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**NOTE Taking AREA:**

The 78% N<sub>2</sub> - 21% Oxygen rich atmosphere & clouds can create a greenhouse effect but it's kept in check by the water on this planet.

Since Earth's orbit is almost nearly circular and the average distance of 93 million miles from the Sun, allows water to exist on its surface as a solid, liquid and gas all at the same time.

Rotation is 23 hours: 56 minutes:04 seconds (solar time)

And has a tilt of 23½° which causes seasons on this planet

Currently it has 1 natural satellite that is ¼ the planet size  
And another satellite only a few miles wide in orbit.  
**TOTAL 2**

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NOTES CONTINUE ON OTHER SIDE

