

**Chapter 20****ENRICHMENT**

Use with Section 4

# Galaxies and the Universe

## Revolving About the Milky Way

*Every 250 million years, our sun revolves once about the center of the Milky Way Galaxy. Find how many revolutions or parts of a revolution have occurred since the following events in Earth's history. Show your work for each event.*

1. Earth formed 4600 million years ago.

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2. Oceans of water began forming 3800 million years ago.

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3. Animals with shells and skeletons first appeared 570 million years ago.

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4. The Appalachian Mountains began forming 500 million years ago.

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5. The first mammals appeared 225 million years ago.

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6. The Atlantic Ocean basin began forming as Africa, Eurasia, and the Americas began separating 190 million years ago.

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7. The last dinosaurs died 65 million years ago.

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8. The Himalaya Mountains began forming 53 million years ago.

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9. The light we now see from the Andromeda Galaxy began traveling through space 2.4 million years ago.

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10. The last ice age ended 10 000 years ago.

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11. The *Apollo* astronauts first landed on the moon in 1969.

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