

**The Sun Powers Earth's Climate System**

Climate System:

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**The Balance of Energy on Earth**

Ultraviolet Radiation

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Infrared Radiation

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Sketch Fig. 2

**Earth Absorbs Energy from the Sun**

When radiation contacts a particle of matter, one of three things happens:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_

Sketch fig. 3

Describe in your own word how the Earth maintains an energy balance

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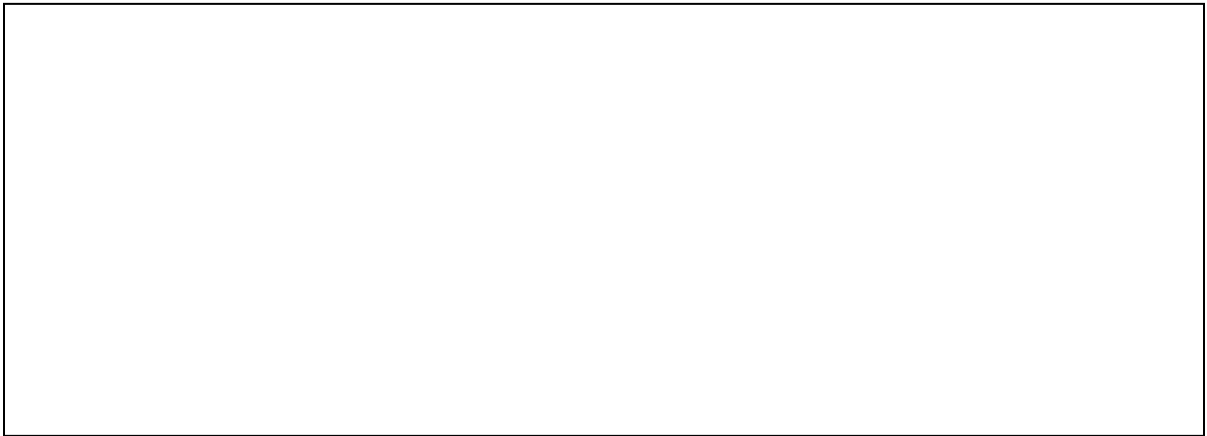
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Sketch fig. 5



### **Latitude and Climate Zones**

Use the diagrams from fig. 7 to explain how the tilt of the Earth's Axis:

1. affects climate
2. affects seasons

