

CHAPTER

15

REINFORCEMENT WORKSHEET

Earth's Amazing Atmosphere

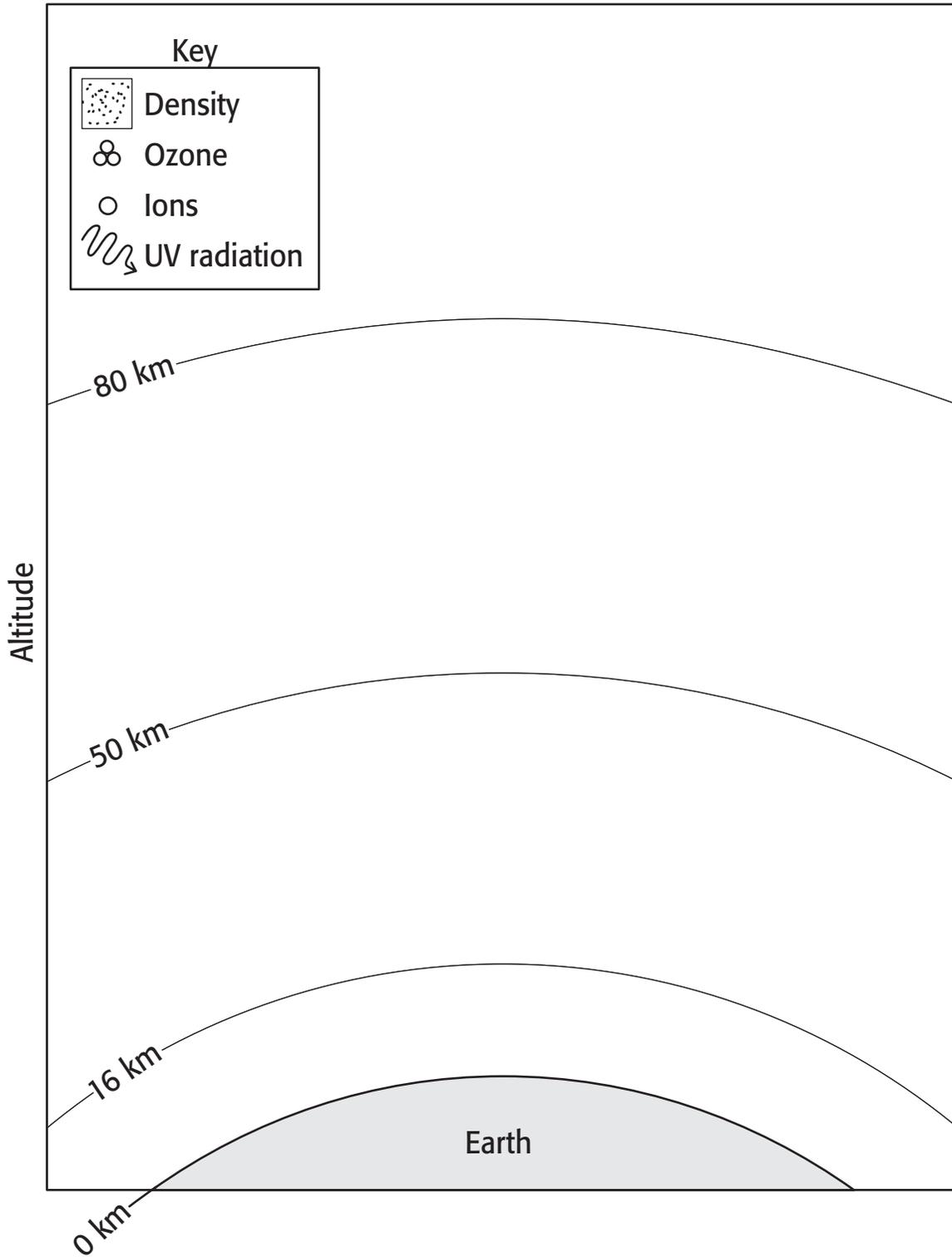
Complete this worksheet after you finish reading Chapter 15, Section 1.

The Earth's atmosphere is divided into four layers. Choose the layer in Column B that best matches the description in Column A, and write your answer in the space provided. Then, use the directions below to label the diagram of the Earth's atmosphere on the next page.

Column A	Column B
___ 1. the layer of the Earth's atmosphere that you live in	a. troposphere
___ 2. the coldest layer of the Earth's atmosphere; lies directly below the uppermost layer	b. stratosphere
___ 3. the uppermost layer of the atmosphere	c. mesosphere
___ 4. the layer that contains most of the atmosphere's ozone; above the layer that you live in	d. thermosphere

- Label the four layers of the atmosphere on the diagram on the next page.
- There is no clear boundary between the uppermost layer of the atmosphere and space. The atmosphere becomes thinner and thinner and blends into space. At the very top of the diagram, write the word *space* with an arrow pointing up.
- The ozone layer is in the upper part of the atmospheric layer that contains most of the atmosphere's ozone. Use the symbol for ozone to draw in the ozone layer on the diagram.
- The ozone layer is important because it absorbs ultraviolet radiation. Draw a wavy line coming from space to represent the UV radiation that is absorbed by the ozone layer.
- The thermosphere contains ions, which are electrically charged particles. When nitrogen and oxygen atoms absorb solar energy, they become ions. Draw the ions in the thermosphere. Remember that the thermosphere is very thin. There are almost no ions near the top of the thermosphere.
- The troposphere is the densest layer of the atmosphere. It is much denser than the other layers. Shade this layer heavily to indicate how dense it is.
- The stratosphere is very thin. Shade this layer lightly.
- The mesosphere is even less dense than the stratosphere. Shade this layer very lightly.

Earth's Amazing Atmosphere, continued



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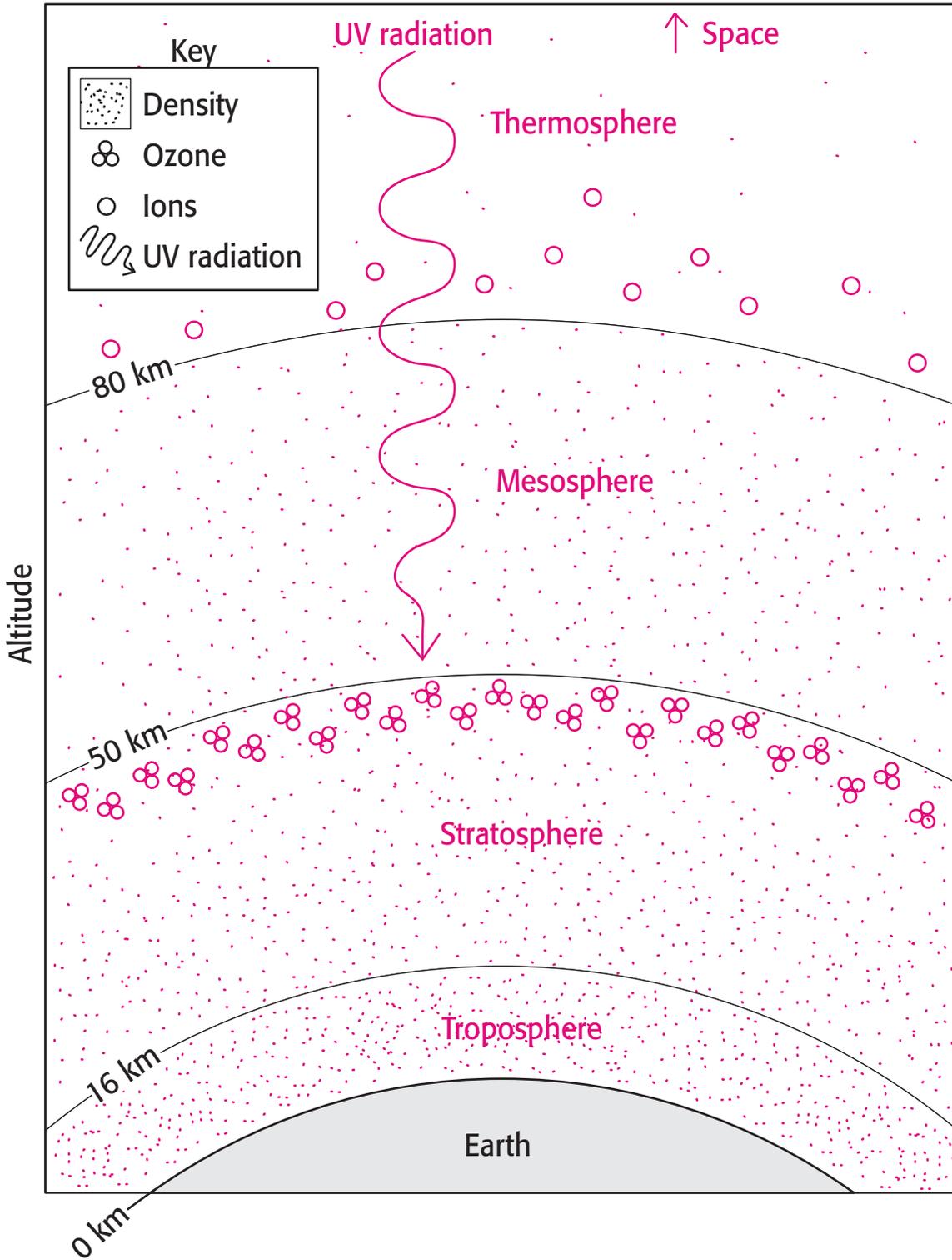
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