ACTIViewer™
What's So Great About Plants?

1. Write the definition of a plant.

2. Give three examples of how plants can be used to remedy illnesses.

3. Draw the process of converting trees into useable lumber for a new house.

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4. What is cellulose?_____

_____

_____

5. Draw a simple food chain and illustrate energy flow.

6. Draw and label an energy pyramid.

7. About _____ percent of the sun's energy moves from one link in a food chain to the next.

Name _____

ACTIViewer™
Start with: The Atmosphere

1. Define weather. _____

_____

_____

2. What tools are used to measure weather?

Tool	**Measures**
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

3. Define climate. _____

_____

_____
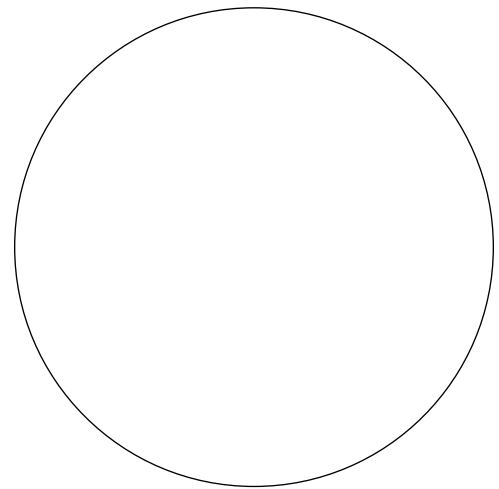

4. What do you call a scientist who studies climate and weather? _____

5. Show the composition of Earth's atmosphere.

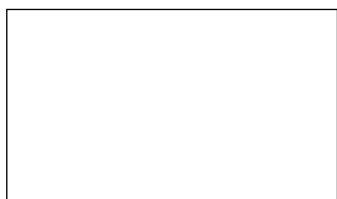☐ **Nitrogen**

☐ **Oxygen**

☐ **Other gases**

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6. Show the layers of Earth's atmosphere based on temperature and altitude.

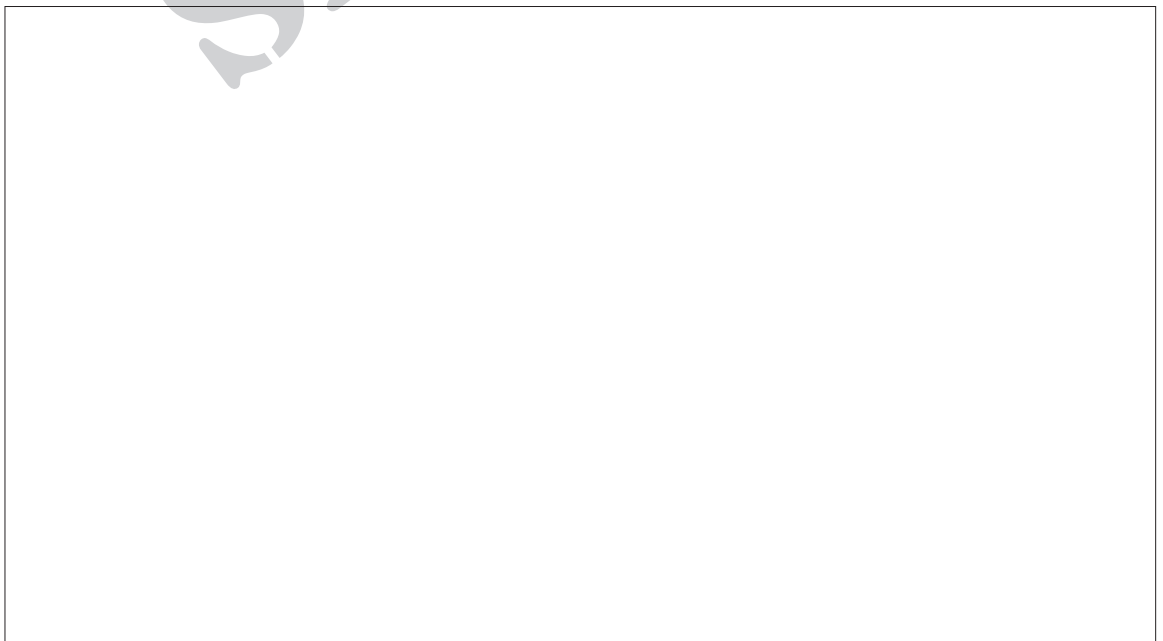7. Draw an ozone molecule. Show its interaction with chlorine.

ACTIViewer™ Classification

1. Write your definition of **biodiversity**. Then, write the dictionary definition.

   _____

   _____

   _____

   _____

2. Write your definition of **classification**. Then, write the dictionary definition.

   _____

   _____

   _____

   _____

3. Write or draw a way to arrange, or classify, the following items into groups:

   Tennis ball, eraser, rubber band, paper clip, wood ruler, flashlight, glue stick, bandage, light bulb, glasses, yellow note pad, lollipop, scissors, toy airplane, spoon, battery, pencil, screwdriver, stuffed cat toy, green highlighter marker
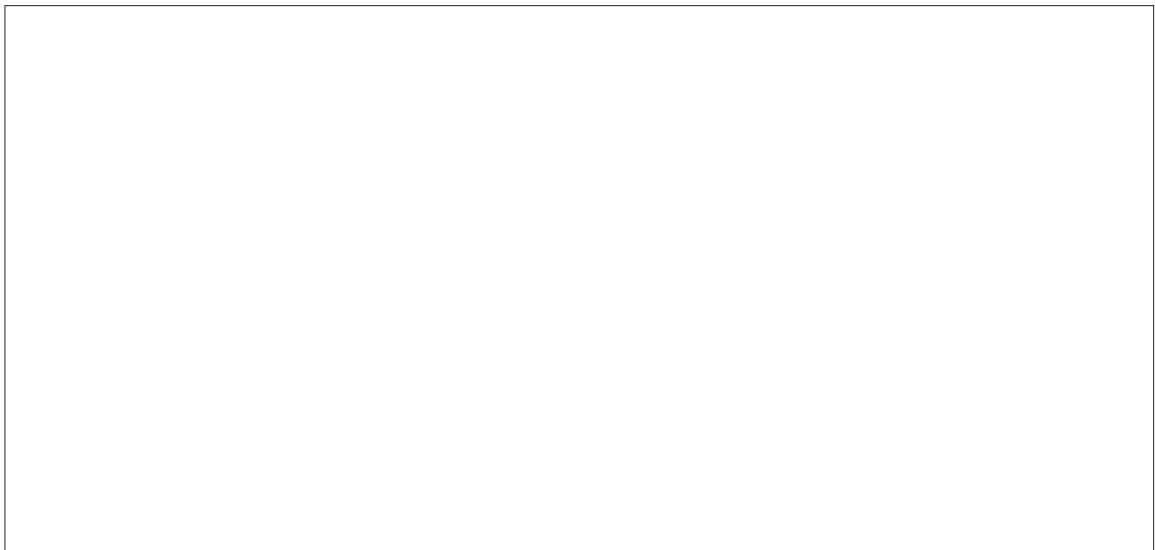
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4. Who was the earliest person to document his work on scientific observations? How long ago did he do this groundbreaking work, and what was the title of his published work?

_____

_____

_____

_____

5. Who was the Swedish naturalist who helped advance the classification cause? What was his nickname? When did he do his work?

_____

_____

_____

_____

6. Define the terms **taxonomy**, **form** and **structure**.

_____

_____

_____

_____

7. Draw and label the three-kingdom classification model described in *Systema Naturae*.

8. Show the Linnaean model of hierarchical taxonomy.

    _____

    _____

    _____

    _____

    _____

    _____

9. What does **binomial** mean? Give an example of a binomial name.

    _____

    _____

10. Show the modern model of hierarchical taxonomy.

    _____

    _____

    _____

    _____

    _____

    _____

    _____

11. Main taxonomic levels may be divided into such smaller groups as subkingdom, sub-phylum, subclass, suborder and so forth, helping to classify organisms further. To what subphylum do humans belong?

    _____

12. What is a mnemonic device?

    _____

    _____

    _____

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13. Create a mnemonic device for the seven main categories used to classify living things.

Kingdom _____

Phylum _____

Class _____

Order _____

Family _____

Genus _____

Species _____

14. What are three characteristics of living things?

_____

_____

_____

15. Draw and label the modern, widely accepted five-kingdom classification model.