

Name \_\_\_\_\_

Date \_\_\_\_\_

### Layers of the Atmosphere

**Directions:** Answer each of the questions below using your ESRT.

1) What is the **definition** of Earth's Atmosphere? \_\_\_\_\_

2) Open your **ESRT** to page 1 and state the **composition** of Earth's atmosphere. \_\_\_\_\_

3) Go to your ESRT **Atmosphere Chart** (p. 14). Name the **layers** that the atmosphere is divided into.

A. \_\_\_\_\_

C. \_\_\_\_\_

B. \_\_\_\_\_

D. \_\_\_\_\_

4) What is the **reason** for **dividing** and separating these layers? \_\_\_\_\_

5) Name the interfaces (boundaries) where one layer **ends** and another **begins**.

A. \_\_\_\_\_

C. \_\_\_\_\_

B. \_\_\_\_\_

6) What layer is **water vapor** found in the atmosphere? \_\_\_\_\_

7) In what layer does **weather** occur and why? \_\_\_\_\_

8) What layer is capable of **supporting life** and why? \_\_\_\_\_

9) What happens to **air pressure** as the altitude of the atmosphere increases? \_\_\_\_\_

Why? \_\_\_\_\_

10) State what happens to **temperature** in each of the following layers:

Troposphere: \_\_\_\_\_

Stratosphere: \_\_\_\_\_

Mesosphere: \_\_\_\_\_

Thermosphere: \_\_\_\_\_