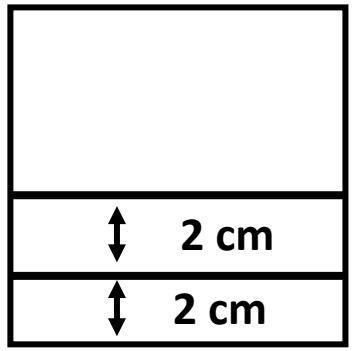
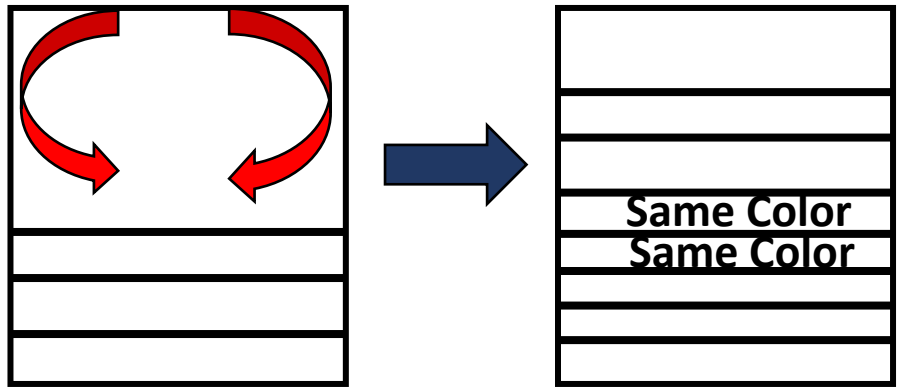
Atmosphere Foldable

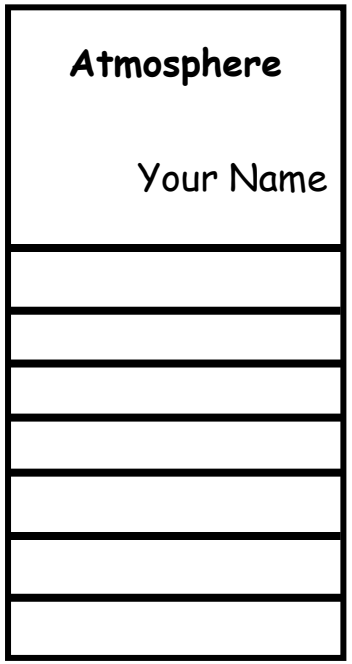
1. Line up 4 pieces of paper so that they overlap by about 2 cm.



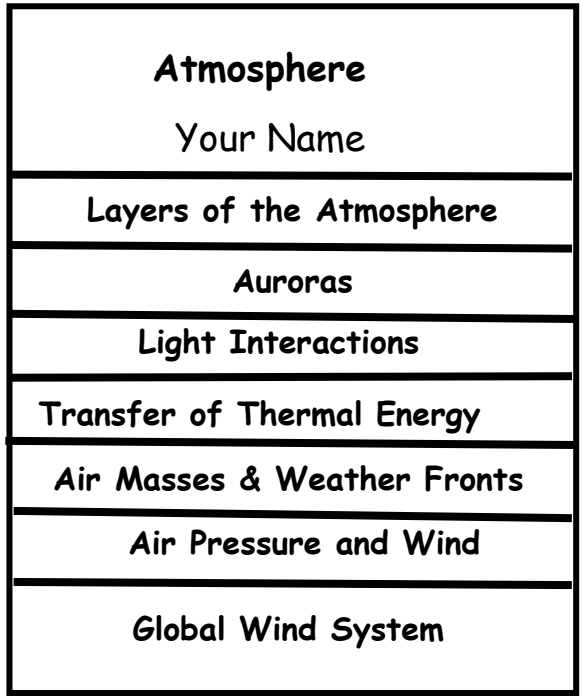
2. Holding the papers together, fold the top down, so that you can see 8 pieces of paper.



3. Write 'Atmosphere ' on the top flap, along with your name.



4. Label the remaining flaps as: Layers of the Atmosphere, Auroras, Light Interactions, Transfer of Thermal Energy, Air Masses & Weather Fronts, Air Pressure and Wind, and Global Wind Systems.



5. Layers of the Atmosphere:

- List the molecules that make up the atmosphere by percentages
- List each layer of the atmosphere, in order
- Describe each layer's characteristics
- List what each layer is associated with or known for

7. Light Interactions:

- Describe how light reaches Earth
- List the different colors that make up white light and why and when we can see different colors
- List the three ways that light can behave when it strikes an object
- Explain how pigments work in allowing us to see colors of objects
- Explain what scattering of light is and why the sky is blue

6. Auroras:

- Explain what creates Auroras
- List the name they are given in the northern and southern hemisphere
- Describe what creates the individual color lights

8. Transfer of Thermal Energy:

- Define thermal energy
- Define temperature
- Define heat and describe the direction in which if flows
- List, describe, and illustrate the three ways by which thermal energy flows

9. Air Masses and Weather Fronts:

- Define what an air mass is
- List the five air masses that form over the U.S and describe their characteristics.
- List the four types of weather fronts.
- Draw an illustration of each weather front
- List the associated weather for each weather front

10. Air Pressure and Wind:

- Define air pressure
- Describe places where air pressure would be high or low according to various latitudes
- Explain how a low pressure system develops and draw a simple illustration
- Explain how a high pressure system develops and draw a simple illustration
- Describe what creates wind and what determines the strength of the wind
- Describe and illustrate a convection cell

10. Global Wind System:

- Describe what creates the Coriolis Effect
- Draw and label a diagram of the global wind systems, making sure to mark the latitudes, the direction of the winds, and the names for the winds.
- List the latitudes associated with rainforests and deserts.