Mastery Opportunity – Meteorology

Mastery assignments are optional, but are due on the day of the test. Choose any two of the following four assignments.

Option 1:

Create a weather map of the United States that shows the following:

- Cold front traveling NE over Tennessee
- Warm front traveling SW over Utah
- Stationary front over Raleigh, NC
- Occluded front traveling SE over Texas

Option 2:

Create 4 sketches: Mountain Breeze Valley Breeze, Land Breeze, Sea Breeze

- 1. Label each type.
- 2. Show the direction of air movement within each diagram
- 3. Label where the warm air goes AND where the cooler air comes in.



Option 3:

Create a story that revolves around a main character on a rocketship moving up through Earth's atmosphere.

You must address:

- Each of the layers of the atmosphere that is passed through
- What happens to the temperature at each layer
- What altitude is associated with each layer

Option 4:

Create a travel brochure for one of the major biomes that we covered. It must include:

- Characteristics of the climate (temp & precip)
- Picture (clip-art or drawn) of that biome
- List of animals found there and the adaptations that help them survive in that area
- List of plants found there and the adaptation that help them survive

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