



**DISTANCE LEARNING PACKET**

**6<sup>TH</sup> GRADE**

**SCIENCE**

## Emergency Preparedness Plan—SCIENCE

### 6th Grade—Earth Science

Day 11: Explain what lunar and solar eclipses are. Explain how the arrangement of the moon, sun, and earth affects our oceanic tides and the seasons we experience on earth.

Day 12: Differentiate between freshwater, salt water, and ice. Think about the earth. Make a T Chart listing all of the water areas you know of, dividing freshwater and salt water. Look at your chart. 96.5% of earth's water is saltwater. Does your chart indicate that? Explain why you think it does or does not.

Day 13: Explain the processes of conduction, convection, and radiation. Write a short essay explaining how energy from the sun provides heat to objects on earth and influences weather patterns across the globe.

Day 14: Describe the following weather events: Thunderstorms, tornados, hurricanes. Make a visual representation of each type of storm that shows how air pressure, weather fronts, and air masses play a part in creating the storm. If ocean temperatures and moisture contribute, include that information.

Day 15: Create a diagram of the earth's layers (crust, mantle, inner core ,outer core). Color and label each layer and provide a description of the following for each layer: Temperature, Density, Thickness, Composition

Day 16: Explain what minerals are, including characteristics and properties. Explain how minerals contribute to rock formation, but are not considered rocks themselves.

Day 17: Construct diagram or model of how to classify rocks by their formation and how rocks change through geologic processes in the rock cycle.

Day 18: Construct a diagram or write an essay explaining how natural processes (weathering, erosion, and deposition) and human activity change rocks and the surface of the Earth.

Day 19: Construct a diagram and label the various types of lithospheric plates: Convergent ,Divergent, Transform. With your labels, write an explanation how the movement at each plate can cause major geologic events such as earthquakes and volcanic eruptions. (Clarification statement:Include convergent, divergent, and transform boundaries.

Day 20: Explain the difference between renewable/sustainable energy resources (examples: hydro, solar, wind, geothermal, tidal, biomass) and nonrenewable energy resources (examples: nuclear: uranium, fossil fuels: oil, coal, and natural gas). Think about your daily activities. Write a story of your daily life, explaining the resources you use for energy. Are there any non renewable sources you could use instead? Include those in your writing.