



**DISTANCE LEARNING PACKET**

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

**SCIENCE**

## Emergency Preparedness Plan—SCIENCE

### **6th Grade—Earth Science**

Day 1: In your own words, explain the following terms used in the scientific method. Qualitative observation, quantitative observation, inferring, predicting, scientific inquiry, hypothesis, variable, Independent (Manipulated variable), Dependent (Responding) Variable, Control, data Scientific Law, Scientific Theory

Day 2: Explain what information would go in each step of the scientific method. If possible, use the above terms.

Question:

Background:

hypothesis:

Experiment:

Analyze & Conclude:

Day 3-4: Suppose you got up this morning and the lightbulb in your room wouldn't come on. Use the steps of the scientific method to explain how you would solve the problem and make the light work again.

Day 5: Design your own experiment and explain how you would use each step of the scientific method to solve your question.

Day 6-7: Explain the terms heliocentric and geocentric in terms of planetary models. Create a chart that compares and contrasts the planets in our solar system in terms of size relative to Earth, Surface and atmospheric features, relative distance from the sun, and ability to support life.

Day 8: Explain gravity & inertia in terms of how the planets stay in orbit. Explain what the milky way galaxy is, and where in it we are located. Make a chart that compares the composition and location of comets, asteroids, and meteoroids.

Day 9-10: Develop a model or diagram to demonstrate the phases of the moon by showing the relative positions of the sun, Earth, and moon.