



Second Earth Space

1. Quest for Questions – The scientific method
2. Observation – Organize minerals
3. 2 – ESS2-1 Discuss Erosion/ Physical Weathering. Form groups and visit four stations that show examples of erosion and solutions to reduce the effects. See a model of how erosion happens.
4. 2 – ESS2-1 Examine solutions to help prevent wind and water erosion. Discuss the pros and cons of each solution you observed in the Erosion and Physical Weathering Class
5. 2 – Ess 2-1 Make clay and use the clay to build models of landforms and bodies of water
6. 2- ESS 2-1 Finish landform models and place them outside. Draw a hypothesis as to how the clay landforms might look in a week.
7. Discuss how to plan an experiment and research great experiments of the past and how they changed the world
8. 2- ESS 2-3 Solid Liquid Gas (water cycle).
9. Design and conduct an experiment that most things contract when they are cold but water expands.
- 10.2- ESS 2-3 as a class Read a research paper explaining the amount, type and location of water on Earth. Draw a picture that shows graphically what we read.
- 11.2- ESS 1-1 Collect data by observing the landform models that were placed outside and present your conclusions.
- 12.2- ESS 1-1 Watch demos on how Volcanoes and Earthquakes can change the landscape quickly. Watch short videos on how physical weathers and erosion change them slowly.
13. Science Focus – Geology



SCIENCE FOCUS – What is PHYSICS

- 14.2-PS1-1 Discuss properties and how the properties of materials are what determine how they are used. Examine different materials, do experiments to determine the properties and collect data.
- 15.2-PS1-2 create an experiment using your materials to demonstrate the best use of the different products.
- 16.2-PS1-3 Discuss systems, using different building material we will try to build as many different forms as we can. We will discuss how small objects can be made to a number of different objects.
- 17.2-PS1-3 Using models (spice drops & toothpicks) of elements we will demonstrate how atoms can be used to make everything we see.
18. Look at the periodic Table of the Elements. Learn how mixing the elements will create different things.
- 19.2- PS1-4 We will discuss heat energy and use a thermometer to collect data regarding the temperature in different areas.
- 20.3-PS1-4 Watch short videos of different things being heated and cooled. Observe different objects and choose a side as to whether the object can return to its original state after being heated or cooled. Be prepared to defend your argument
- 21.3-PS1-4 Conduct different experiments that demonstrate that some chemical reactions make things hot and some make things cold.
22. Learn how many of the products we buy today are made using chemistry. Observe the three things that can happen during a chemical reaction
23. Make a life sized board game that teaches the lessons we covered in Physics.
24. Finnish and test the game



SCIENCE FOCUS – What is BIOLOGY

- 25.2-LS2-1 Learn that scientist believe plants turn sunlight and water directly into food. Work in teams of three to develop an experiment that supports that idea.
- 26.2- LS2-1 Conduct the experiment you developed and create the materials you will need to collect data
- 27.2-LS2-2 Discuss how plants reproduce, examine different seeds and spores
- 28.2-Ls2-2 Look at the different way plant seed and dispersed by animals and make a model that demonstrates ways animals help plants move seeds.

- 31. 2-LS4-1. Observe different land and water habitats and the community of animals that live there. Observe the number of different population in an area and discuss your hypothesis as to what makes each area different.
- 32. 22. Research different ecosystems and create a backdrop showing all the parts that create each system
- 33. Share your illustration and demonstrate how the ecosystems work.
- 34. Reptiles and Amphibians explore the differences and make a chart showing how they are classified. Observe a real frog
- 35. Make a movie showing some science dance moves and your favorite experiments throughout the year.
- 36. Continue your making your movie. Complete your movie and watch it