



## Kindergarten Earth Space

1. Quest for Questions– Go outside to make observations and ask questions about those observations
2. Observe Rocks– Using a magnifying glass look at the rocks and explain what makes them different and the same. Find a friend with a matching rock
3. Mountains can be moved– Observe how weather effects rocks and how rocks are formed
4. Weather patterns- Look at pictures of weather over a period of several days in different eco systems. Can you find patterns
5. Weather station– Use tools to measure study the weather
6. Forecast the weather– Using information gathered about weather meteorologists make predictions based on patterns
7. Air– Make observations, conduct experiments and discuss what we know about air
8. Weather and Living things– Examine the number plants and animals that live in an area, look at the weather patterns, and use the data to develop a connection between the weather and living things environment. Present your conclusion from the data
9. How living things change their world– Research a number of different plants and animals to see how they change their environment to survive
10. Dino Dig– Dig in sand boxes to find different fossils and try to put the fossils together to make a complete skeleton
11. Preservation Poster– Make a poster that shows how we may share our world with all living things
12. Share your solutions– Complete the poster and share what solutions you chose and why those were chosen
13. Science Focus– Discuss geology and astronomy and how scientists build upon previous knowledge to discover new things



14. Other planets– Observe pictures of planets as seen from Earth and discuss how we learned about these objects. Reference photographic examples of astronomy tools
15. The Sun and Solar System– Define systems and where the extent of solar systems
16. See the stars– Learn and act out stories of mythical creatures that have been told for thousands of years
17. What else is out there– View images of different celestial bodies astronomers have observed in space



## Physics

18. Science Focus– Ask the question what is physics and what have scientists of the past learned from studying this field of science
19. Pushes– Play a game where we sit in a circle and push balls with different shapes and weights to our friends while we observe how they move
20. Pulls– Using a wagon and a pulley build a system to help us explore how the weight of different objects will change how much force it takes to move
21. Colliding balls– Use planks of wood and the fence to build ramp systems to explore what happens to the balls when we change the height of the ramps
22. Spinning force– Make observations of things that spin and explain exactly what you see before making a hypothesis as to why
23. Observe Sunlight– Make it clear not to look at the sun but to observe the sunlight using different tools like mirrors, tubs of water, prisms, and objects with different transparencies
24. Temperature of a shadow- Conduct an experiment defined by the students to try to find out if its cooler in the shade
25. Explore energy– Play the potential and kinetic game and begin to identify when an object has potential or kinetic energy
26. Force Fun– Have fun outside while looking at how forces help us have fun



## Biology

27. Science Focus– We look at Biology and the many Biologist who learned from this field of science
28. Grow a plant- Use beans to observe plant growth in your classroom
29. Living or Nonliving– Create a chart that organizes the different living and nonliving things
30. Nutrition– What do we need to live and what do we need to live better
31. Hygiene– We will explore the tools of hygiene and how they work
32. Houses and Habitats– Research the history of houses, how animals make their houses or habitats they live in and imagine houses of the future
33. Plant or Animal– Observe and define the difference between the needs of plants and animals
34. Patterns of living things– Research animal migrations, eating habits, plants daily activities, seeds to plants and other patterns
35. Life cycle– Make observations of Earth Worms while learning about the worms life cycle
36. Carnivore or Herbivore– Research the difference between a carnivore and a herbivore, and everything in between
37. We Need Water– Have fun with water and define its properties
38. Play with robots and compare senses with sensors