

FOCUS AREAS FOR FOURTH GRADE:

- Understand how weathering and erosion (like blowing wind, flowing water, and moving ice) can break and move rocks and other things.
- Understand how the different parts of plants (like seeds, leaves, roots, and fruit) and animals (like bones, legs, ears, and eyes) help them grow and survive.



- Understand how energy moves and changes. Observe energy as light, sound, electricity, or heat: for example, the electrical energy that lights up a bulb when a wire is attached to a battery.
- Try out the design process like an engineer: for example, plan, develop, test, and improve products to solve specific problems.

BY THE END OF FOURTH GRADE, STUDENTS CAN:



 Explain how renewable energy sources (like sun,

water, and wind) are different from non-renewable ones (like coal, oil, and nuclear power).

- Use evidence to show how erosion has changed the local landscape over time
- Use maps of Earth's continents and oceans to analyze where volcanoes, earthquakes, and mountain ranges form.
- Compare different ways of protecting people and things from events like floods and blizzards.
- Explain how energy and the speed of objects are connected. Predict what will happen when two objects run into each other.
- Show how wave patterns carry energy and can cause objects to move.
- Compare ways of communicating using patterns, like Morse code.
- Design a solution to a problem. Test it to see how well it works. Use the test results to improve the design.

QUESTIONS YOU CAN ASK YOUR CHILD:

- What are some ways to make sure a flooding river does not damage roads and bridges?
- How do our eyes allow us to see the world around us?

TOPICS YOU CAN DISCUSS WITH YOUR CHILD'S TEACHER:

- Ways of applying what your child learns in science to everyday situations
- Places in the community that can help your child learn science