

# GRADE 4 SCIENCE

While learning fourth grade science, children are responsible for conducting experiments that help them understand more. The reading and writing skills they have developed in the third grade will greatly prepare them for success this year. Parents can check off the following topics as their children progress.

## UNDERSTANDING

- Create questions for researching based on previously completed experiments
- Write and verbalize understanding of information gained from experiments
- Use written text and computers for conducting research
- Support claims and experiments with collected data
- Work independently or within a group to complete projects and experiments

## SCIENTIFIC METHOD

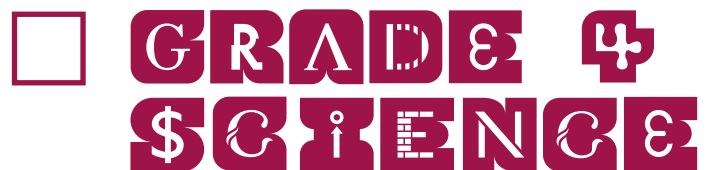
- Observe and research information in order to come up with a hypothesis
- Make predictions for what will happen during an experiment
- Come to conclusions once experiments have been conducted
- Know how to use the scientific method - which consists of the information listed above - for conducting experiments

## EARTH & ENVIRONMENTS

- Recognize changes in landscape over time by finding patterns in rock formations and fossils
- Observe the effects of erosion as caused by water, ice, wind and vegetation
- Pinpoint patterns in features of the Earth by analyzing maps
- Look at how natural processes on Earth - such as natural disasters - have affected humans
- Understand how organisms interact with their environments

## ENERGY & WAVES

- Provide evidence through observations of how energy is transferred by light, sound, heat and electric currents
- Predict changes to energy that will occur when objects collide
- Understand that energy and fuels come from natural resources, and the use of each affects the environment
- Create a wave model that shows patterns in amplitude - the maximum extent of a vibration - and wavelength



Much of fourth grade science learning is focused around hands-on activities, and those can take place at any time! Make learning fun for your child by giving him/her the chance to use the scientific method in a variety of daily activities, like working in the garden or taking a hike.