**By the end of the year, students in 1st grade will be able to...**

•Make observations to describe the source of energy that causes an increase in temperature of an object

•Record information from observations of different materials to provide evidence that vibrating materials can make sound, and that sound can make materials vibrate

•Construct an explanation for a design of a device that uses light or sound to solve a problem

•Make observations to define a simple human problem through mimicking how plants and/or animals use their external parts to grow and survive

•Make qualitative observations to compare and contrast young and their parents

•Make observations of the location of the sun, moon, and starts in the sky over time

•Make observations that can be used to make comparisons of the sun, moon and stars patterns

•Make observations and collect data about local weather conditions

•Communicate information or design ideas and/or solutions about a situation people want to change

•Develop a model to describe how the shape of an object helps it function to solve a given problem

•Make and record observations to compare the strengths and weaknesses of how two objects perform