

MAKING SCIENCE FUN!



AMAZING SCIENTIST

NGSS CONNECTIONS

OVERVIEW:

As you know, the Next Generation Science Standards (NGSS) set expectations for what science concepts students should understand. These AMAZING SCIENTIST KIT activities start young scientists on the way to meeting those standards. Take a look and see what can be accomplished!



JUST FOR TEACHERS



Young scientists (grades K-2) who demonstrate understanding can:

- Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. (NGSS 1-PS4-3.)
- Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. (NGSS 2-PS1-1.)
- Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. (NGSS2-PS1-2.)
- Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. (NGSS K-2-ETS1-2.)

Young scientists (grades 3-5) who demonstrate understanding can:

- Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.
 (NGSS 4-PS4-2.)
- Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved. (NGSS 5-PS1-2.)
- Conduct an investigation to determine whether the mixing of two or more substances results in new substances. (NGSS 5-PS1-4.)
- Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. (NGSS 3-5-ETS1-3.)