

Pre-trip preparation for

Solids, Liquids, Gases and the In-Between! – Grades 1-2

Most are familiar with solids, liquids and gases but in this Discovery lab we will not only learn about these three main states of matter but also when material can fall in between! Your students will find this station lab a fun way to learn about or review the states of matter. At the end of the lab students will be amazed when we show them a surprising slime that can dance along to music!

Nevada Academic Content Standards in Science (NGSS): PS1.A

Structure and Properties of Matter - Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties.

Nevada Academic Content Standards in Science (NGSS): 2-PS1-1

Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

Common Core: W.2.8

Recall information from experiences or gather information from provided sources to answer a question.

Common Core: MP.2

Reason abstractly and quantitatively.

During your Discovery Class students will be expected to:

- Sit in groups of 4 students per table.
- Students should be prepared to give their full attention to the Lab instructors when given the quiet signal.
- Work cooperatively with one another at the table.
- Follow the hands-on procedures just as the Lab teacher or assistant explains them.
- Handle materials and equipment carefully especially iPads.
- Rotate from one station to the next when given the signal. We will go over this carefully during the class but we find it can be a challenge for some students and it is very helpful to have adults in the room guide students during these transitions.

It is important that teachers and chaperones:

- Help focus the students' attention.
- Assist students with the hands-on activities and experiments when necessary.
- Engage students at a higher level by asking open-ended questions throughout the class.
For example: why did you choose __ ?
- Turn off cell phones and other electronic devices during the class.

Literary connection:

To get students excited about the upcoming Discovery lesson we suggest reading the following story with your students: *What Is the World Made Of? All About Solids, Liquids, and Gases* by Kathleen Weidner Zoehfeld. This whimsical read aloud introduces the youngest readers to an important science concept: the differences between solids, liquids, and gases.