

MATTER MATTERS

Explore solids, liquids, and transformations between them with this hands-on science program!

SUMMARY:

Students experiment to understand the properties of solids and liquids and the changes they undergo.

EDUCATIONAL VALUE:

This workshop provides students with an opportunity to explore matter and transformations between solids and liquids. They will experiment to see things can be done to materials to change some of their properties, but not all materials respond the same way to what is done to them. They will measure and compare the weight of water poured into different containers. Hands-on activities encourage students to interact with the concepts presented.



TAKE-HOME MESSAGE:

- 1 Matter can change from a solid to a liquid and a liquid to a solid by heating and cooling.
- 2 We can change the shape of a solid by breaking or tearing it.
- 3 We can change the shape of a liquid by pouring it into a different container.
- 4 The same amount of water will look different in different shaped containers.
- 5 Matter weighs the same when it changes state.



TAKE-HOME PRODUCT:

Mad Science® Polymer Putty

North Carolina Essential Standards:

Understand properties of solids and liquids and the changes they undergo.

- 2.P.2.1 Give examples of matter that change from a solid to a liquid and from a liquid to a solid by heating and cooling.
- 2.P.2.2 Compare the amount (volume and weight) of water in a container before and after freezing.
- 2.P.2.3 Compare what happens to water left in an open container over time as to water left in a closed container.