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SUMMARY:

This festive event will have your kids gasping and laughing at the Mad Scientist's exciting and merry science experiments. Through a mixture of science and magic the children will see gifts appear. Watch as our special Snowman is de-frosted right before their eyes! See an Insta-Snow explosion, dry ice, and more!

EDUCATIONAL VALUE:

This program introduces children to the physical facts of the states of matter. Children will be shown what happens to dry ice when it is exposed to an object at room temperature, and will observe its amazing cooling ability. With the concept of sublimation explained, the class will explore the phenomenon's end product: carbon dioxide. Children receive a solid introduction to the three states of matter and their properties. They will learn how and why matter changes between the different states, and will have a good understanding of elementary physical principles. The children will be able and eager to tell any inquiring adult all about carbon dioxide–in its solid or gaseous state!

TAKE-HOME MESSAGE:

1 There are three states of matter.
2 Adding heat can change solid to liquid, and liquid to gas.
3 Removing heat can change gas to liquid, and liquid to solid.

NORTH CAROLINA ESSENTIAL STANDARDS:

- K.P.2 Understand how objects are described based on their physical properties and how they are used.
- 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
- 3.P.2 Understand the structure and properties of matter before and after they undergo a change.
- 3.P.3.2 Recognize that energy can be transferred from a warmer object to a cooler one by contact or at a distance and the cooler object gets warmer.
- 4.P.2.1 Compare the physical properties of samples of matter (strength, hardness, flexibility, ability to conduct heat, ability to conduct electricity, ability to be attracted by magnets, reactions to water and fire).
- 5.P.2.3 Summarize properties of original materials, and the new material(s) formed, to demonstrate that a change has occurred.
- 5.P.3 Explain how the properties of some materials change as a result of heating and cooling.
- 6.P.2 Understand the structure, classifications and physical properties of matter.