

ACTIVITY GUIDE

## Jennifer Shea Hedberg - Wintercraft Ice Wrangler

**Objectives:** Jennifer Shea Hedberg utilizes our Minnesota winters and cold to make amazing ice sculptures! In this activity, you will make your own ice lanterns, something that she learned early on, out of party balloons! Do this science-based activity in the winter time when it's cold outside and you'll have a lovely winter lantern of your own to admire!

**Standards (Suggested 2nd +):**

**Science:**

2.1.1.2.1 - Raise questions about the natural world and seek answers by making careful observations, noting what happens when you interact with an object, and sharing the answer with others

2.1.2.2.2 - Describe why some materials are better than others for making a particular object and how materials that are better in some ways may be worse in other ways

2.2.1.2.1 - Observe, record, and recognize that water can be a solid or a liquid and can change from one state to another

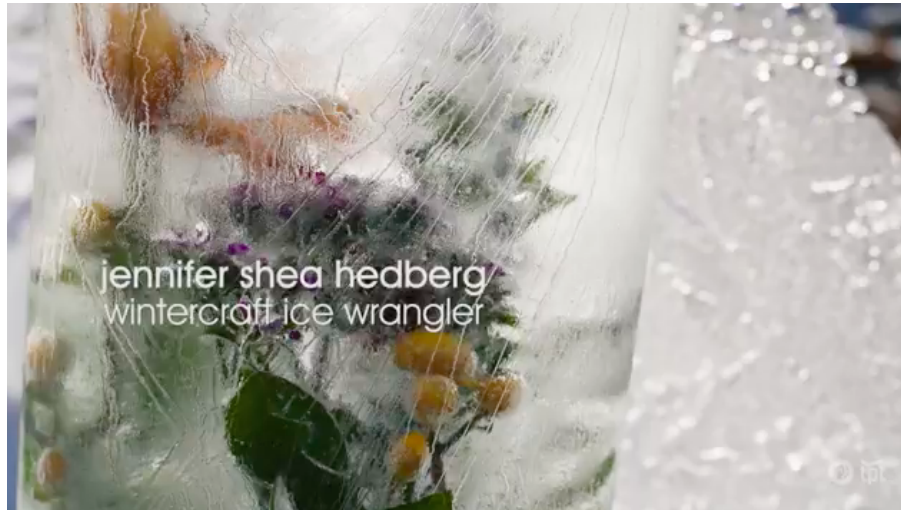
**Arts**

0.1.2.4.1 - Identify the tools, materials, and techniques from a variety of two- and three-dimensional media such as drawing, printmaking, ceramics, or sculpture

0.2.1.5.1 - Create original two- and three-dimensional artworks to express ideas, experiences, or stories

**Tools/Resources:**

MN Original video clip, balloons (or punch balloons - more durable), water, faucet, battery operated tea lights, scissors



**Video Clip:** <http://www.tpt.org/mn-original/profile/jennifer-hedberg/video/Jennifer-Hedberg-30191/>

**Activity**

- 1) Watch the segment and discuss:
  - a. What is “ice logic”?
  - b. What are the three states of water? What state of water are Jennifer Shea Hedberg’s sculptures?
  - c. If the sun suddenly became warmer, what would happen to the ice statues first? Second? (in terms of the state of water)
- 2) Ice Lanterns
  - a. Use either party balloons or punch balloons. Punch balloons are recommended as they have a heavier weight, can create bigger ice lanterns, and are more durable than party balloons. Plus you can use the string to hang the ice balloon and achieve a better circular shape.
  - b. Fill the balloon with water from the faucet
  - c. When about full, turn off water, blow in a little bit of air, and tie at the end. If using punch balloon, hang the balloon outside somewhere it can freeze and hang up undisturbed. If using a regular balloon, put the balloon outside where it will freeze undisturbed
  - d. Ask - What state of water is in the balloon right now? How can you tell?
  - e. The next day, check on balloons.
    - i. Use scissors to pop and remove balloon.
    - ii. Place ice lantern over a battery-operated tea light turned on
    - iii. Admire your ice lantern!
      1. What state of water is the ice sculpture? How do you know?

172 EAST FOURTH STREET | SAINT PAUL, MN | 651.212.1717 | MNORIGINAL.ORG

