



Lesson Plan: Crafting a Sock Snowman Using STEM Principles

<https://www.youtube.com/watch?v=mlOieRRVBm0>

Grade level: Upper Elementary (7-13 years old)

Duration: 1 hour

Objective: Students will learn how to craft a simple Christmas decoration from a sock, developing their fine understanding of various materials, creativity, and ability to follow instructions. This lesson plan will help students develop crafting skills, foster creativity, and enjoy a fun and fulfilling activity.

Materials needed:

- A white fluffy sock;
 - A colorful fluffy sock;
 - Scissors;
 - 5 rubber bands;
 - Rice;
 - Funnel + a spoon / cup / scoop;
 - Glue gun with silicone sticks;
 - Various decorative elements to create at least the eyes and nose of the snowman.
- Optional: Needle and sewing thread to sew the decorative elements onto the snowman.

Preparation:

1. Watch the tutorial video.
 2. Gather all materials and prepare the work space.
 3. Setup a demonstration area where you can show the steps to the class.
- Optional: Prepare templates for decorations to help students who might need extra guidance.

Lesson Procedure

Introduction (10 minutes):

1. **Introduction to Craft:** Explain to the students that they will be making a sock snowman using various items / materials. Show a sample sock snowman and discuss how it can be customized with different decorations.
2. **Objective:** Share the objective of the lesson and what they will be learning and creating.

Activity steps (40 minutes):

1. Preparation (5 minutes):

- Give each student a paper cup.
- Distribute the socks, scissors, rubber bands, and the decorative items.





2. Filling and shaping the sock snowman (10 minutes):

- **Step 1:** Have the students layout all the materials and instruments that they are going to use.
- **Step 2:** Instruct students to fill in the white sock with rice using the funnel and a spoon / cup / scoop.
- **Step 3:** Using rubber band, the students will shape the body and the head of the snowman.

3. Decorating the sock snowman (15 minutes):

- **Step 4:** Allow students to use various decorative elements, either using the glue gun or by sewing them with a needle and sewing thread.
- **Step 5:** Encourage creativity by having them design different clothes for the sock snowman.

4. Finishing touches (10 minutes):

- **Step 6:** If desired, students can add additional features such as a ribbon or bow to the sock snowman, using either glue or sewing them.
- **Step 7:** Allow time for the glue to dry, if necessary.

Conclusion (10 minutes):

1. **Showcase:** Have students present their sock snowman to the class. Discuss the different designs and creative choices made by each student.
2. **Reflection:** Ask students to reflect on what they learned and enjoyed about the activity. Discuss how the skills they used could be applied to other crafts.

Assessment:

- **Participation:** Observe students' participation in the activity and their ability to follow instructions.
- **Creativity:** Assess the creativity and effort put into decorating the sock snowman.
- **Completion:** Ensure each student completes their sock snowman and applies the skills learned in the lesson.

Multiple choice questions:

1. What is the first step in creating the sock snowman?

- A) Decorating the sock snowman with markers.
- B) Layout all the materials and instruments necessary.
- C) Gluing the hat to the snowman's head.
- D) Adding a ribbon.

2. What is the main objective of this lesson?

- A) To learn math skills.
- B) To craft a Christmas decoration and learn to follow instructions.
- C) To learn the history of snowmen.
- D) To practice writing skills.



True or False:

- 1) **True or False:** Should students glue the decorative elements on the sock snowman?
- 2) **True or False:** Students are encouraged to add decorations like glitter and stickers to make their sock snowman unique.

Fill-in-the-Blanks:

- 3) In Step 2, students are going to use a _____ in order to fill in the sock with rice.
- 4) In the final steps, students can add additional features like a _____ or a _____ using glue or tape.

Extension activities:

- **Creative Prompt:** Imagine your sock snowman is magical. What powers does it have and how would you use it?
- **Math Extension:** Use a ruler to measure the length of the white sock and the height of the snowman and calculate the difference.

To encourage students to think critically about the STEM fields involved, you could ask:

Which STEM fields do you think were used in the making of the snowman from a sock filled up with rice, and how did each field play a role?

This question helps them recognize:

1. **Science** – Understanding material properties of fabric, glue or sewing technique.
2. **Technology** – Using tools for cutting or decorating.
3. **Engineering** – Thinking about structure and design to ensure stability and wearability.
4. **Math** – Measuring dimensions and planning layout for symmetry or decoration.