

INDEPENDENT STUDENT LEARNING AT HOME

LESSON 3: Brainstorming

TODAY I WILL LEARN

“But I can’t think of anything.” How many times have you said this to yourself or to someone else? It’s true. Coming up with ideas can be hard, but it’s not impossible, especially when you have a method.

Today, you will learn about brainstorming and thinking outside the box to come up with new ideas by using a method called SCAMPER. You will practice by brainstorming a common object to find a new use for it.

MATERIALS

Resources Provided by YIP:

- Video: Brainstorming – guided Instructions
- Slide Deck: Brainstorming
- Video: History Channel Time Out: *The Origin of Ice Cream Cone*
<https://www.youtube.com/watch?v=7OcfzMIZsxA>
- PDF/Worksheet: Ice Cream Cone
- PDF/Worksheet: SCAMPER with Ice Cream Cone
- PDF/Worksheet: SCAMPER On Your Own

Materials from Home:

- Pens/pencils
- Notebook or paper
- Kitchen utensil or household object
- Art/craft materials such as recycled items, markers, cotton balls, glue, tape, scissors, buttons, popsicle sticks

INVENTOR PLAN

Instruction: Understanding Invention Process

1. Watch Video: Brainstorming – Guided Instructions. Refer to Slide Deck if needed for review.
2. Watch Video: The History Channel Time Out: *The Origin of Ice Cream Cone*
<https://www.youtube.com/watch?v=7OcfzMIZsxA>
3. Practice the SCAMPER method to brainstorm a new use for the ice cream cone. Download the SCAMPER with Ice Cream Cone Worksheet.
4. Brainstorm ways to ways to change the cone using the method described by each letter of the word SCAMPER. The worksheet will guide you with prompts.

Example: S= SUBSTITUTE

- What could be substituted for the cone?
 - What could be substituted for the ice cream?
 - What could be substituted for the taste? The texture?
5. Download the Ice Cream Cone Worksheet (picture of an ice cream cone). Draw a new use for the ice cream cone by modifying the cone in the picture using SCAMPER and illustrating its new function.

Activity: SCAMPER ON YOUR OWN

Students will find a kitchen utensil or other object from home.

1. Find a kitchen utensil or other object from home.
2. Download the SCAMPER On Your Own Worksheet. Complete the worksheet as you SCAMPER your kitchen utensil.
3. Share your new ideas with someone at home. What was fun? What was challenging? What can you do when you feel “stuck” and cannot think of anything?
4. Now, use any art/craft materials from home and re-design the original kitchen tool into its new use. (Ask an adult before you do this, and do not make any permanent changes without permission.)

CHECK AND REFLECT

1. How many ideas for a new use for the ice cream cone did you come up with using the SCAMPER method. How might an inventor use this method and how might you use this activity in real life?