

# Scoop – A – Loop Conundrum!

## A Project about Volume

A summary of the project is below, and a rubric (how you will be graded) is on the back of this page. Please use both to complete your project.

### **Scenario:**

The Scoop-A-Loop ice cream company creates tasty ice cream in 215 different flavors. They are currently packaging their ice cream in a rectangular prism container. Over the last few months, the Scoop-A-Loop's profits have been on the decline. In an attempt to attract more customers to their product, the company has enlisted your help as the lead packaging designer. Your reputation for creating quality packaging for high end products has convinced Scoop-A-Loop to pay you handsomely in exchange for a quality package.

They would like the package to be in the shape of a cylinder or cone. The size and design of the packaging has been left up to you. Follow the directions below to create a great package for the Scoop-A-Loop company and receive your \$15,000 payment!

Directions: Use the guidelines below to create your ice cream container.

- Use any size paper, poster, or cardboard to create your container.
- Make sure your container constructed well enough so that it does not fall apart.
- You can use tape, glue, or anything you like to hold your container together.
- You must decorate the outside of your package to promote the Scoop-A-Loop company.
- Measure the dimensions of your package using inches to the nearest tenth (ex. 1.5 inches).
- Use the response sheet to brainstorm, and record the information about your package.
- Be sure that you can answer questions about your package, as you will be presenting it when you turn it in.
- Be creative and have fun!

### **Turn it in Check List:**

- This page with name on it.
- Response sheet completely filled out.
- Scoop-A-Loop Package in the shape of a cylinder or cone (decorated).

**Rubric:**

<b>Criteria:</b>	<b>Good (10 -9)</b>	<b>Fair (8-7)</b>	<b>Poor (6-0)</b>	<b>Score</b>
<b>Shape</b>	The shape of the container is easily identifiable and well put together.	The shape of the project is identifiable, but not put together very well.	The shape of the project is not identifiable and/or is not put together.	
<b>Dimensions</b>	The dimensions of the package are all accurate and measured in inches.	A few of the dimensions are not accurate or are not measured in inches.	None of the dimensions are accurate.	
<b>Creativity of Design</b>	The outside of the package is creative and shows great effort.	The outside of the package is decorated but not very creative.	The outside of the package is modestly decorated or not decorated at all.	
<b>Presentation</b>	The student is knowledgeable about their package design and can accurately describe and defend it when questioned.	The student can discuss some aspects of their design but has trouble describing some aspects.	The student cannot accurately describe their design.	

<b>Response Sheet</b>	See Sheet	See Sheet	See Sheet	
<b>Bonus:</b>	The student's package is selected by an outside source (fellow teacher or principal) to represent the Scoop-A-Loop company!			

**Total Points Earned:** \_\_\_\_\_/

Name: \_\_\_\_\_ Date: \_\_\_\_\_]

## Response Sheet

### Brain Storming Area!!!

List, create, and draw ideas for your design here....

Please answer the following questions using complete sentences.

1. What is the shape of your ice cream container?
2. What is the height of your container in inches (to the nearest tenth)?
3. What is the diameter of your container in inches (to the nearest tenth)?
4. What is the radius of your container in inches (to the nearest tenth)?

5. How many cubic inches of ice cream can your container hold (show all work)?
6. If the Scoop-A-Loop company sells their ice-cream for \$0.05 per cubic inch, how much would your container of ice cream cost?
7. Do you think the price of your ice cream container is reasonable? Justify your answer.
8. Write a three short persuasive sentences to the CEO of the Scoop-A-Loop ice cream company describing why your ice cream container is sure to increase sales and profits for the company.