Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **1**

Date \_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_

SAVING SAM LAB

**Experimental Question:** What is the problem that needs to be solved? Explain!

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**Discussion Ideas (research):** With your group,discuss and agree on at least 2 methods for Saving Sam before you start experimenting. Explain or draw an illustration of one method below.

 **Procedure:** Record detailed step by step instructions and/or illustrations for Saving Sam below. You do not have to use all 6 steps!

|  |  |  |
| --- | --- | --- |
|  | WRITTEN DIRECTIONS | ILLUSTRATIONS |
| STEP 1 |  |  |
| STEP 2 |  |  |
| STEP 3 |  |  |
| STEP 4 |  |  |
| STEP 5 |  |  |
| STEP 6 |  |  |

1. Check any of the skills you used in your process of Saving Sam.

\_\_\_\_\_ identified a problem \_\_\_\_\_ developed a tool \_\_\_\_\_ predicted

\_\_\_\_\_ developed a process \_\_\_\_\_ described something \_\_\_\_\_ communicated

\_\_\_\_\_ applied a math concept \_\_\_\_\_ asked questions \_\_\_\_\_ investigated

\_\_\_\_\_ made an improvement \_\_\_\_\_ made a model \_\_\_\_\_ used math

\_\_\_\_\_ came up with better ideas \_\_\_\_\_ proved something using evidence

\_\_\_\_\_ analyzed: made sense of data or an outcome

SCIENCE & ENGINEERING PRACTICES

 Skills or practices that scientists and engineers use to answer questions, design solutions, & figure things out!

1. Asking questions & defining problems
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations & designing solutions
7. Engaging in argument from evidence
8. Obtaining, Evaluating and Communicating Information

2. How do the skills you used in your process of Saving Sam compare to the Science and Engineering Practices listed above? Explain!

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3. List and Explain 3 similarities between the skills you used in your process of Saving Sam compare to the Science and Engineering Practices.

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3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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