

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## The Cell as a Cookie Factory

**NGSS Standards: MS-LS1-2:** Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.

**Objectives:** Relate the function of cell organelles to a cookie factory

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### 1. Compare a cell to a cookie factory

Predict the cell organelle for each job and then write a description of the function

| Job in the Factory                                     | Cell Organelle | Function of the Organelle |
|--------------------------------------------------------|----------------|---------------------------|
| <b>Boss</b>                                            |                |                           |
| <b>Cookie Recipes</b>                                  |                |                           |
| <b>Workers</b>                                         |                |                           |
| <b>Assembly line<br/>(Where workers do their work)</b> |                |                           |
| <b>Packaging/Shipping department</b>                   |                |                           |
| <b>Cookie Warehouse<br/>(storage department)</b>       |                |                           |
| <b>Security factory door</b>                           |                |                           |

|                                            |  |  |
|--------------------------------------------|--|--|
| <b>Factory Wall, floor<br/>and ceiling</b> |  |  |
| <b>Generators<br/>(electricity)</b>        |  |  |
| <b>Clean up crew</b>                       |  |  |

**Critical Thinking:**

2. What would happened to the cookie if there was a mistake in the cookie recipe? How does this relate to the cell?