



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

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

# Traditional Versus Commercial Cleaning Products

*Which has more cleaning power?*



## Introduction

There are many kinds of homemade and store-bought cleaning products. Often you can use different products to do the same job. In this experiment, you will compare two cleaning products to find out which works better on certain messes.

## Instructions

Form a group of 2 or 3 to conduct your experiment. Then, follow the steps below to complete your experiment.

### Step 1. Independent Variables

An independent variable is something that does not change, even when you change the other parts of the experiment.

Choose **one** traditional or natural cleaning product.

The traditional or natural cleaning product we have chosen is: \_\_\_\_\_

Choose **one** commercial cleaning product.

The commercial cleaning product we have chosen is: \_\_\_\_\_

### Step 2. Controlled Variables

Choose something you will try to clean with your products. Remember, you must clean the **same** thing with **both** products. Whatever you clean must also have the **same** amount of dirt. Decide how you will measure how dirty something is (e.g., pouring the same amount of grease onto a countertop).

We have chosen to clean \_\_\_\_\_ with our cleaning products.

We will measure the amount of dirt by \_\_\_\_\_.



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### Step 3. Develop Your Hypothesis



Your hypothesis is your prediction about the results of your experiment. What do you think will happen? Which cleaning product will be the winner?

We predict that \_\_\_\_\_ will be more effective than \_\_\_\_\_ at cleaning \_\_\_\_\_.

### Step 4. Prepare for Your Experiment

Do you know how to use your chosen products? Explain how to use them below.

Natural or Traditional Cleaning Product:

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Commercial Cleaning Product:

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Are there any safety measures you need to follow when using these products? What do the instructions say? Write the safety instructions here.

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### Step 6. Conduct Your Experiment

Carry out your experiment based on the procedure you developed. Use the chart below to record your observations. Remember, you don't have to use everything from the chart. Just choose what makes sense for your experiment!



#### Observations

Record your observations in the table below.

	Natural/Traditional Product:	Commercial Product:
Shininess of the surface after using the product		
Grease-cutting ability		
Amount of the stain removed		
Other:		
Other:		



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### Step 7: Reflect on Your Results

Explain your observations. Was your hypothesis correct? Why or why not?

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