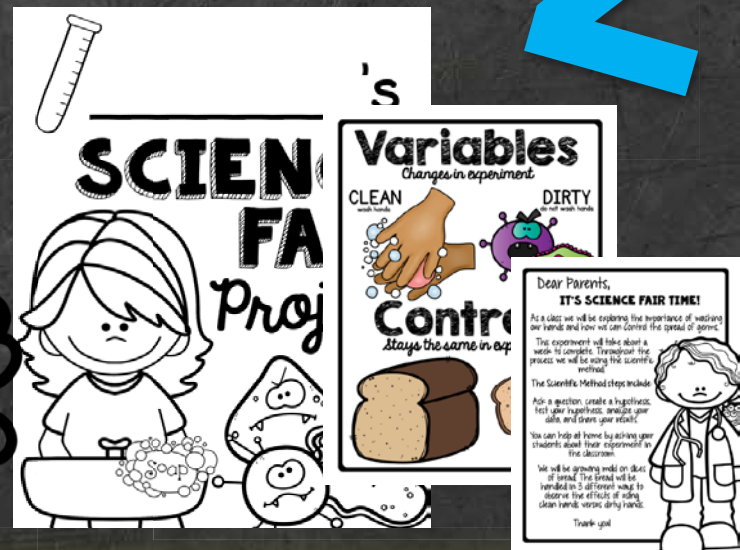


# Quick Prize winning Science Fair Project 2



Why do we  
need to wash  
our hands?

GROWING MOLD  
Everything you need.



# Quick Prize winning Science Fair Project



Dear Parents,  
**IT'S SCIENCE FAIR TIME!**

As a class we will be exploring the importance of washing our hands and how we can control the spread of germs.

This experiment will take about a week to complete. Throughout the process we will be using the scientific method.

The Scientific Method steps include:  
Ask a question, create a hypothesis, test your hypothesis, analyze your data, and share your results.

You can help at home by asking your students about their experiment in the classroom.

We will be growing mold on slices of bread. The bread will be handled in 3 different ways to observe the effects of using clean hands versus dirty hands.

Thank you!

Don't miss the  
**SCIENCE FAIR!**

Day: \_\_\_\_\_  
Time: \_\_\_\_\_  
Location: \_\_\_\_\_

Experiment  
Materials

SCIENCE FAIR Project

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

Parent Letter

Posters

**Variables**  
Changes in experiment

**CLEAN** (wash hands) **DIRTY** (do not wash hands)

**Controls**

**Variables**  
Changes in experiment

**CLEAN** (wash hands) **DIRTY** (do not wash hands)

**Controls**  
Stays the same in experiment

**Results**

How did our germs affect the pieces of bread?

Control Clean Dirty

I should \_\_\_\_\_ my hands often.

How do you know? \_\_\_\_\_

How can you help not spread germs? \_\_\_\_\_

**My Hypothesis**

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

Clean Hands: \_\_\_\_\_ Dirty Hands: \_\_\_\_\_

**EXPERIMENT MATERIALS**

Why do we need to wash our hands?  
First, we will place three pieces of bread in each bag labeled control, clean, and dirty. We will not touch the control. Next we will use clean hands to place the bread in the second bag. All students will touch the bread in the third bag. We will leave the bags for 5 days and observe our data and observations.

**Materials you need:** \_\_\_\_\_

**Experiment Data**

Day	Day 1	Day 2	Day 3	Day 4	Day 5
Control					
Clean					
Dirty					

**Conclusion:**

Germs are tiny living things that give us colds, flu, and other illnesses. They are everywhere around the world in many different places. Four types of germs are viruses, bacteria, protozoa, and fungi.

We must make sure that we are protecting ourselves from germs by washing our hands and staying away from things that may carry germs. Washing your hands often with soap and water is a great way to keep yourself healthy and feeling well. Make sure when you sneeze or cough you cover your nose and mouth and wash your hands right after!

Step one:  
ASK A QUESTION

Step three:  
TEST YOUR HYPOTHESES

Step five:  
SHARE YOUR RESULTS

Step two:  
CREATE A HYPOTHESIS

Step four:  
ANALYZE YOUR DATA

charts!  
graphs!

Title/labels  
for board

**Why is it important**

Step One: Ask a question  
Step Two: Create a hypothesis  
Step Three: Test your hypothesis  
Step Four: Analyze your data  
Step Five: Share your results

Day One CONTROL  
Day Two CONTROL  
Day Three CONTROL  
Day Four CONTROL  
Day Five CONTROL

Day One CLEAN  
Day Two CLEAN  
Day Three CLEAN  
Day Four CLEAN  
Day Five CLEAN

Day One DIRTY  
Day Two DIRTY  
Day Three DIRTY  
Day Four DIRTY  
Day Five DIRTY

# Dear Teachers,

This is a quick and interesting science fair project good for elementary students. In this resource you will find all of the materials that you need throughout the project as well as the materials to make your tri fold board. There is also a parent letter and anchor charts for the scientific method included.

Students will learn the importance of washing their hands to stay germ free.

To begin- you will need to purchase a loaf of bread. The type of bread can vary the experiment slightly. A fresh loaf of bread with as little extra preservatives as possible is most likely to give you the most drastic results. Label 3 baggies with control, clean, and dirty. Use a glove to place the control slice inside the first bag. Wash your hands and place the second piece of bread in the bag with your hands. Lastly let the students pass around the last piece of bread and have each student handle it before placing it into the bag labeled dirty. Display in classroom and observe changes over the next couple of days.

If there is something that you believe is missing from this product please let me know and I will work on adding it for you.

Happy Science Fair! Hope this makes it just a little easier for you!

Pencils and Panthers.



Dear Parents,

## **IT'S SCIENCE FAIR TIME!**

As a class we will be exploring the importance of washing our hands and how we can control the spread of germs.

This experiment will take about a week to complete. Throughout the process we will be using the scientific method.

The Scientific Method steps include:

Ask a question, create a hypothesis, test your hypothesis, analyze your data, and share your results.

You can help at home by asking your students about their experiment in the classroom.

We will be growing mold on slices of bread. The bread will be handled in 3 different ways to observe the effects of using clean hands versus dirty hands.

Thank you!





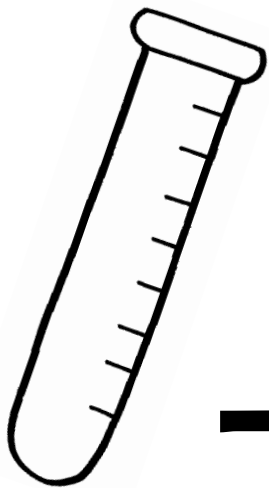
# Don't miss the **SCIENCE FAIR!**

**Day:**

**Time:**

**Location:**

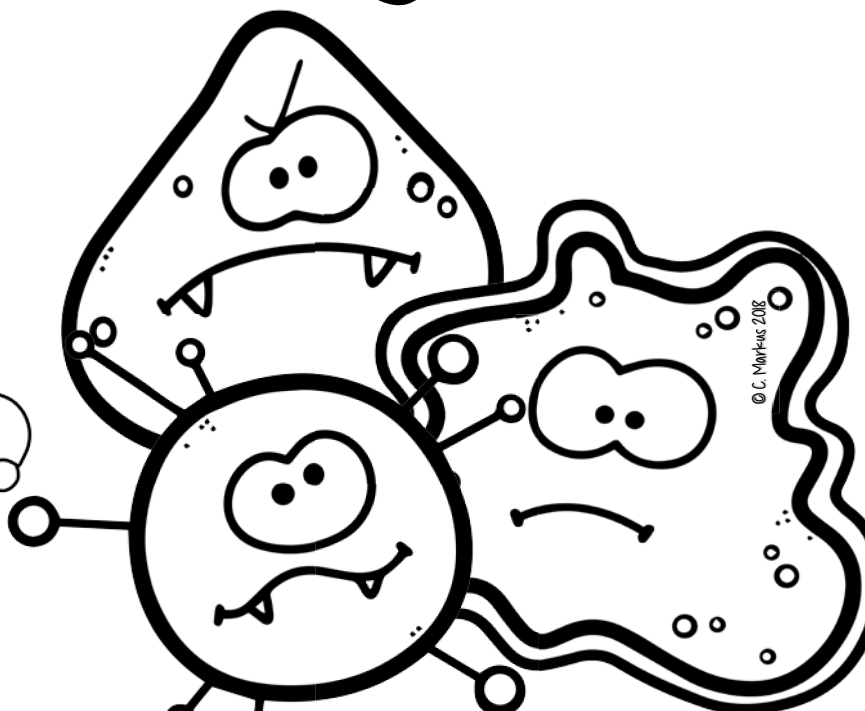
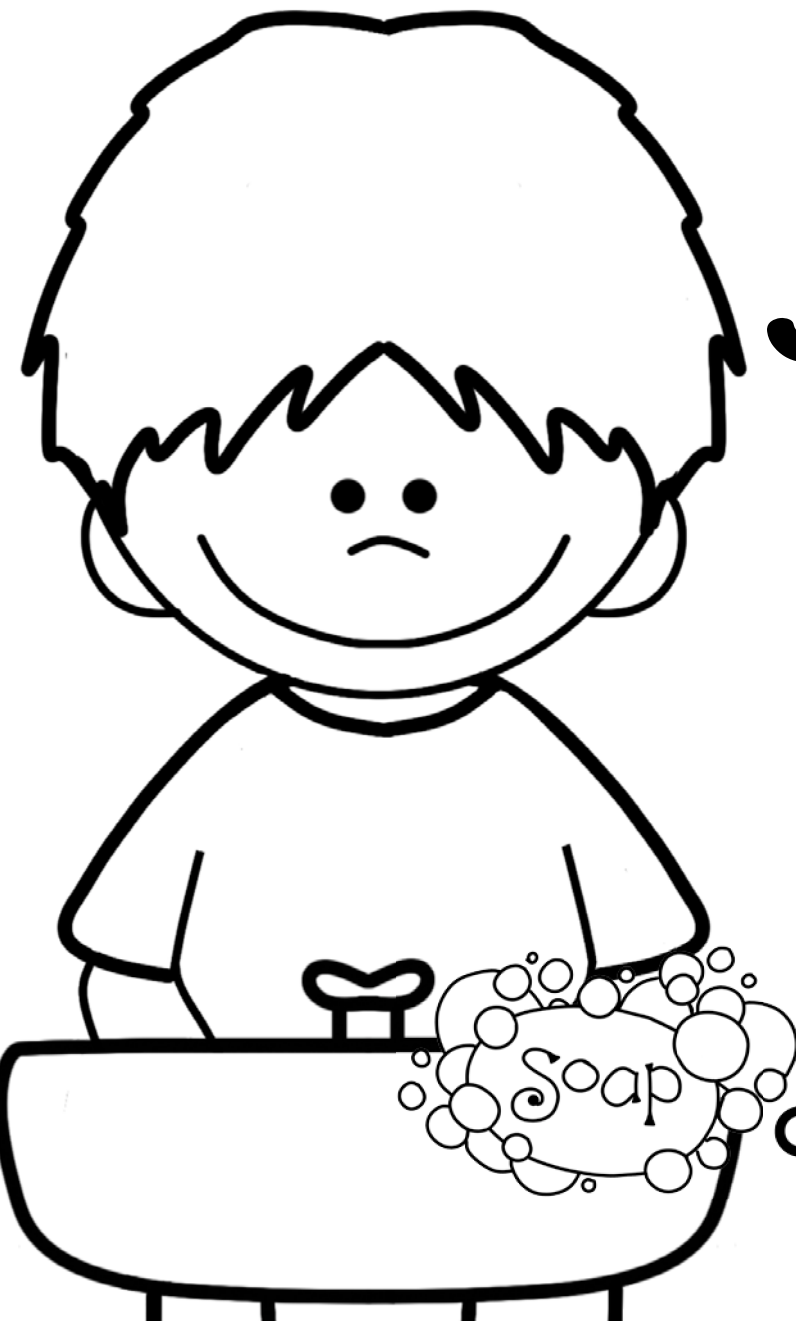




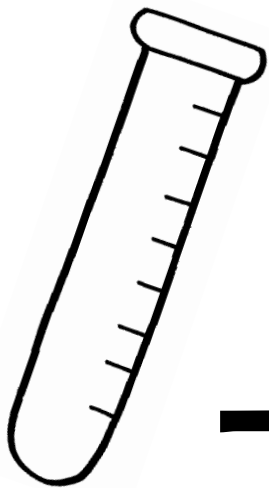
's

# SCIENCE FAIR

## Project



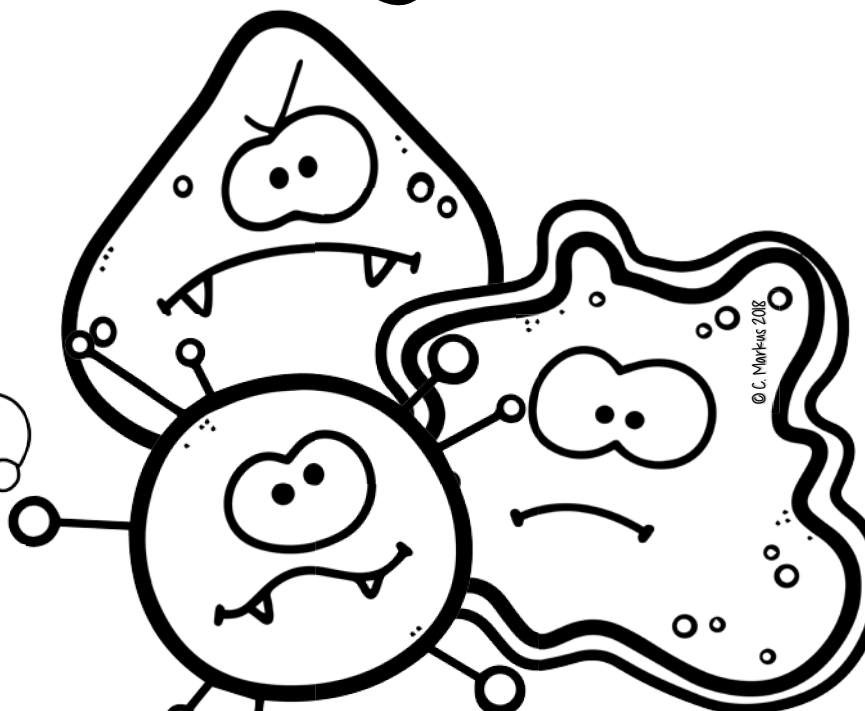




's

# SCIENCE FAIR

*Project*



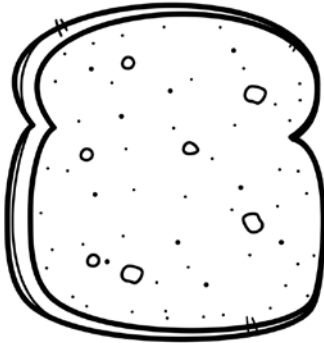
Name:

Date:

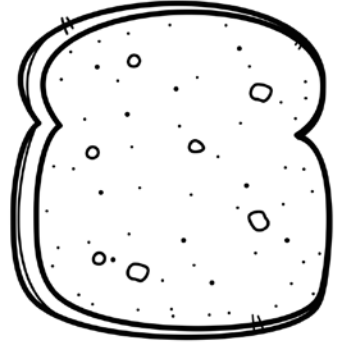
# My Hypothesis

Draw a picture and write what the bread will look like after with clean hand and dirty hands.

Clean Hands:



Dirty Hands:



Handwriting practice lines (solid top and bottom lines with a dashed middle line) for writing the hypothesis.

Handwriting practice lines (solid top and bottom lines with a dashed middle line) for writing the hypothesis.

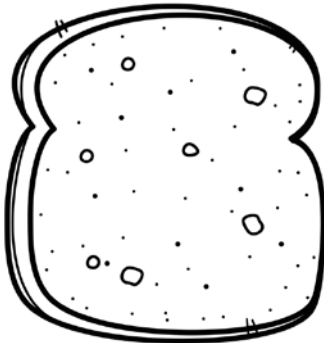
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Date:

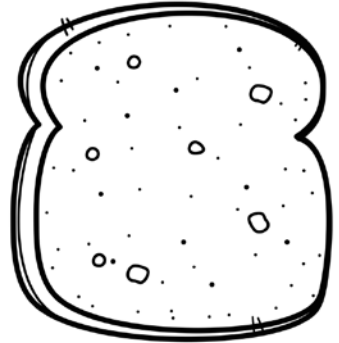
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Draw a picture and write what the bread will look like after with clean hand and dirty hands.

Clean Hands:



Dirty Hands:



Handwriting practice lines (solid top and bottom lines with a dashed middle line) for writing the hypothesis.

Handwriting practice lines (solid top and bottom lines with a dashed middle line) for writing the hypothesis.



Name:

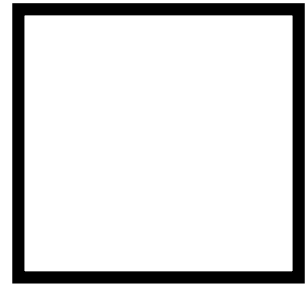
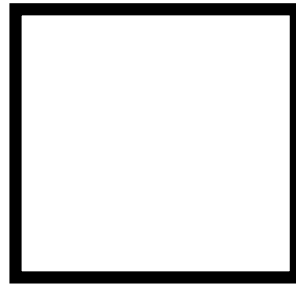
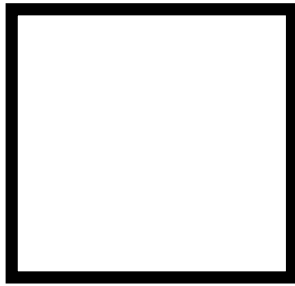
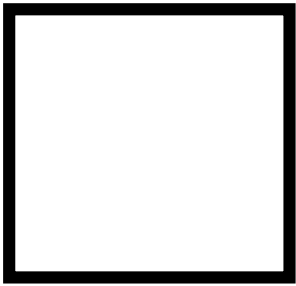
Date:

# EXPERIMENT MATERIALS

Why do we need to wash our hands?

First, we will place three pieces of bread in each bag labeled control, clean, and dirty. We will not touch the control. Next we will use clean hands to place the bread in the second bag. All students will touch the dirty bread before placing it in the bag. We will leave the bags out in the classroom and write down our data and observations each day.

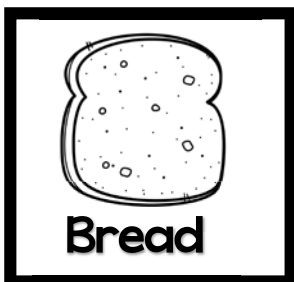
Materials you need:



How will we begin our experiment?

Handwriting practice lines consisting of three sets of solid top and bottom lines with a dashed middle line.

© C. Markus 2018

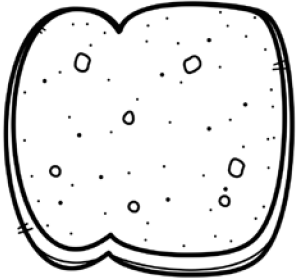
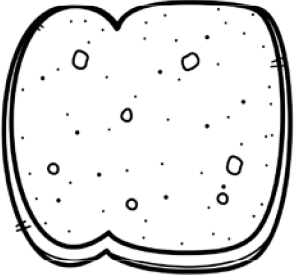
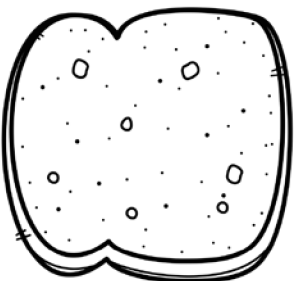
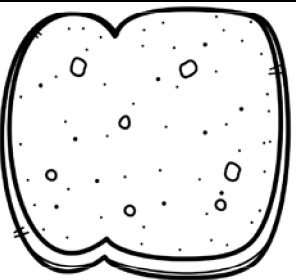
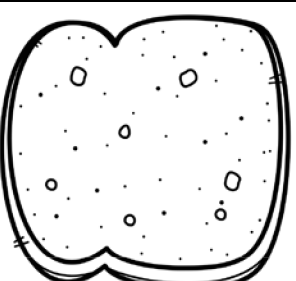
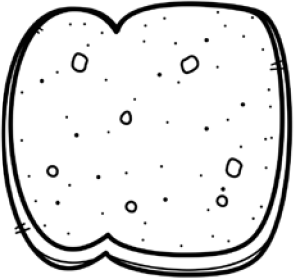
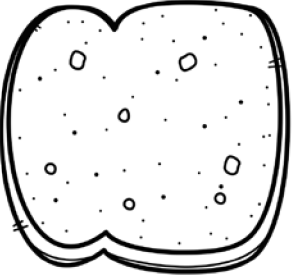
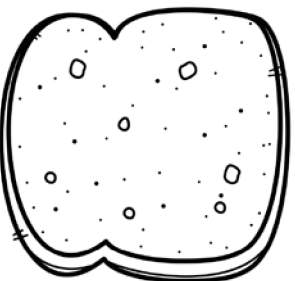
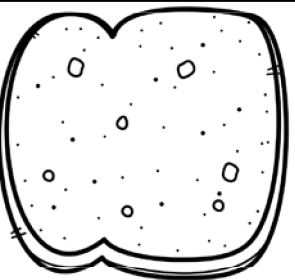
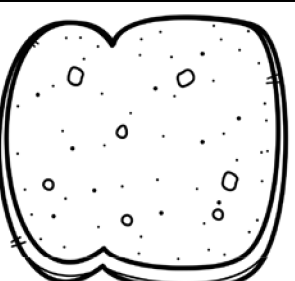
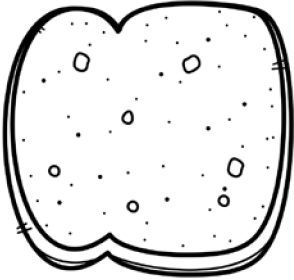
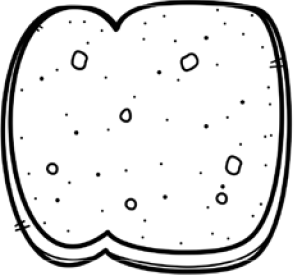
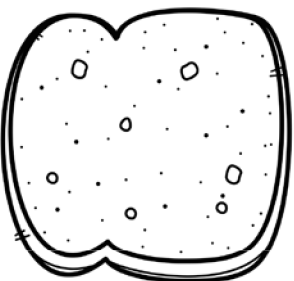
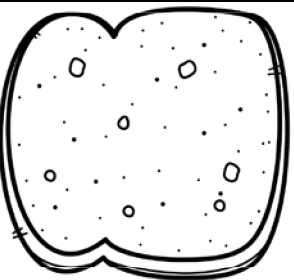
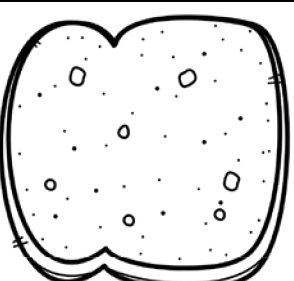


Name:

Date:

# Experiment Data

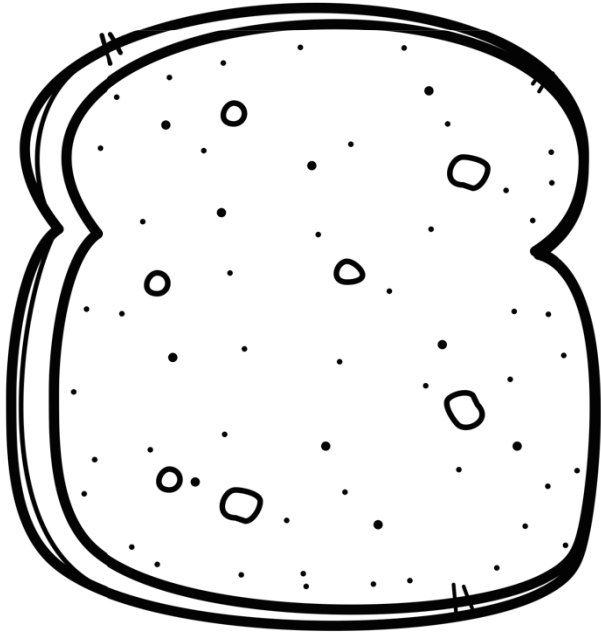
Draw a picture of what you see each day.

	Day 1	Day 2	Day 3	Day 4	Day 5
Control					
Clean					
Dirty					



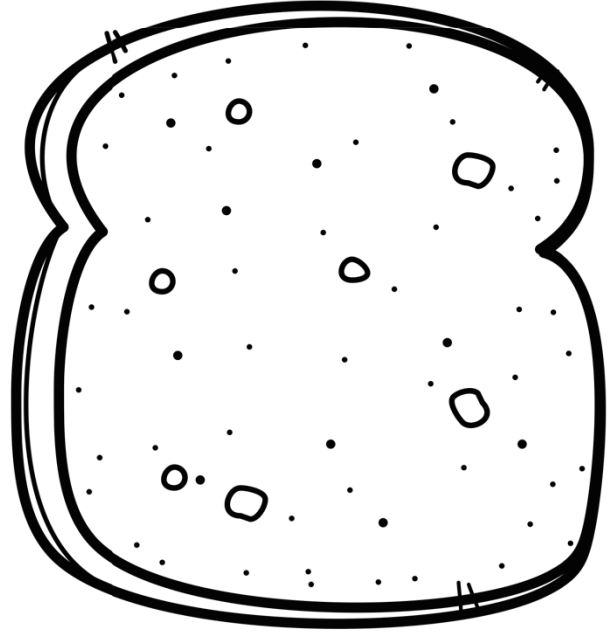
Day One

**CONTROL**



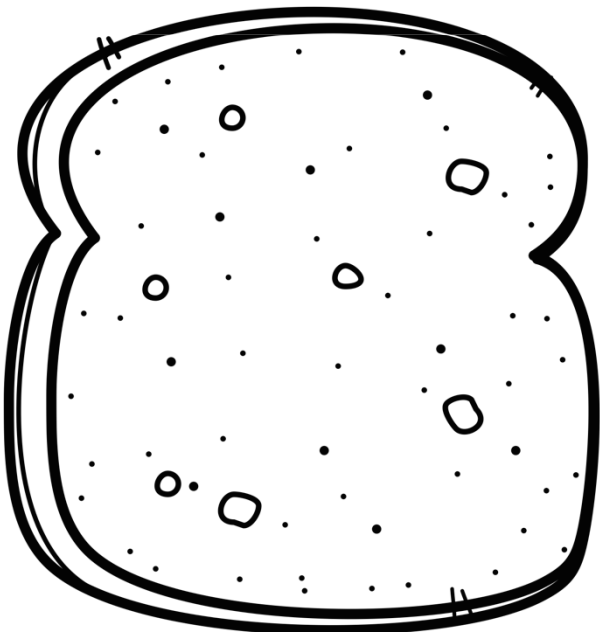
Day Two

**CONTROL**



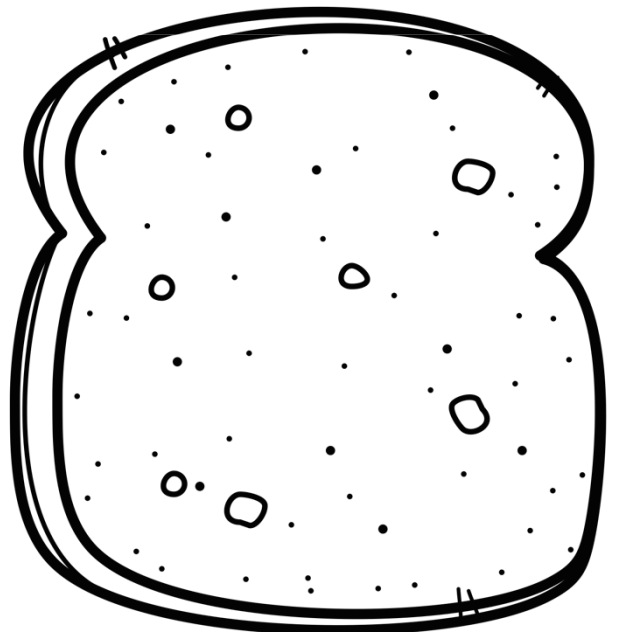
Day Three

**CONTROL**



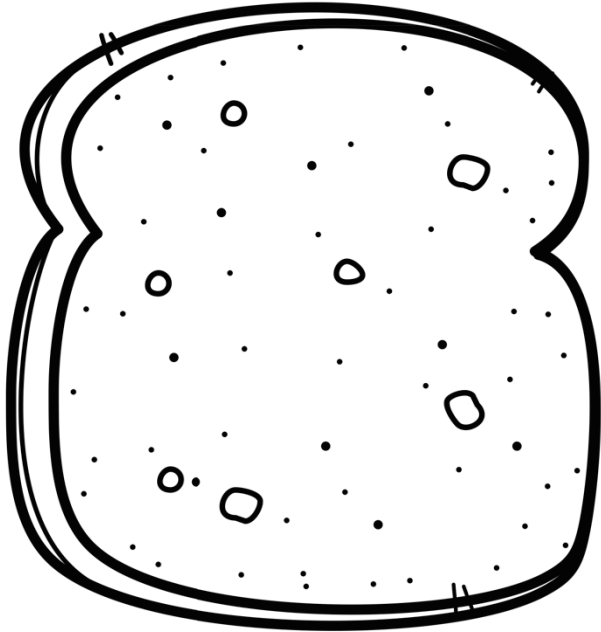
Day Four

**CONTROL**



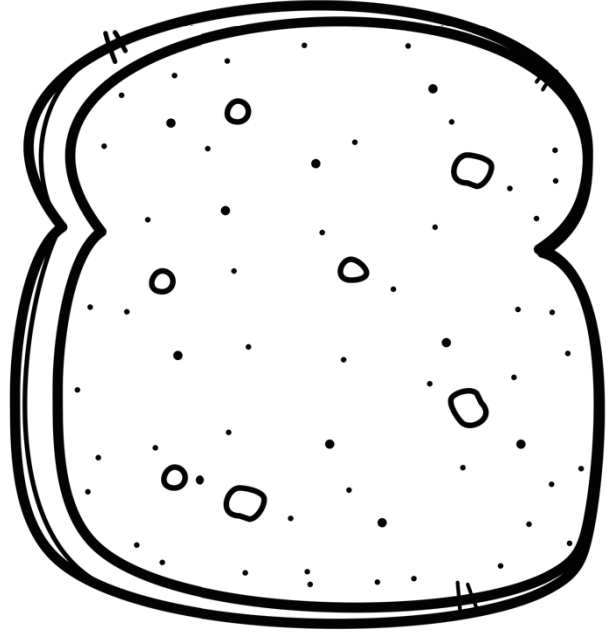
Day One

**CLEAN**



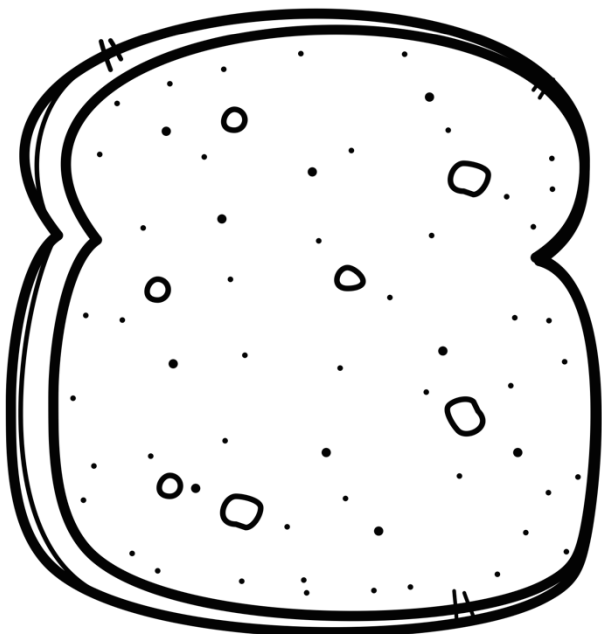
Day Two

**CLEAN**



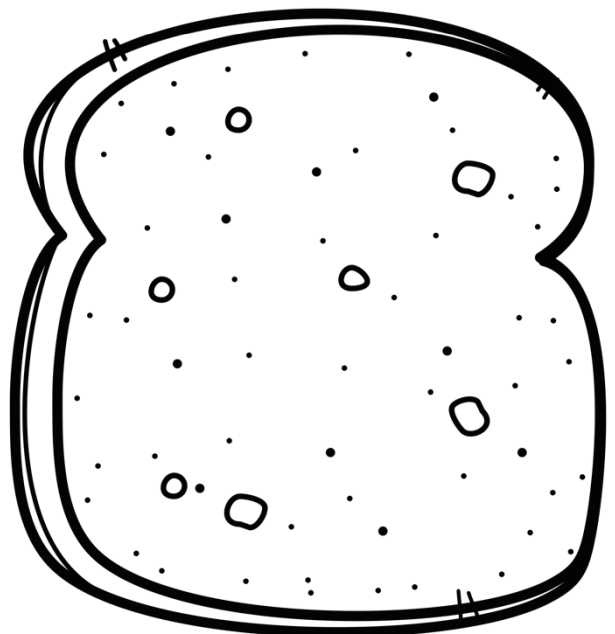
Day Three

**CLEAN**



Day Four

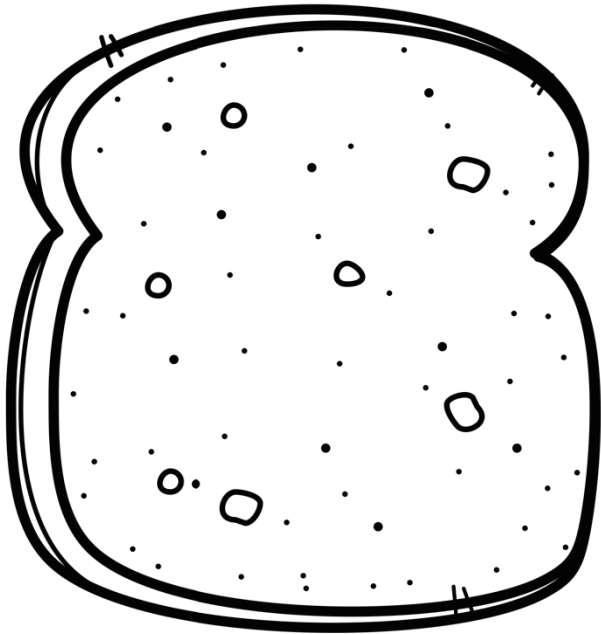
**CLEAN**





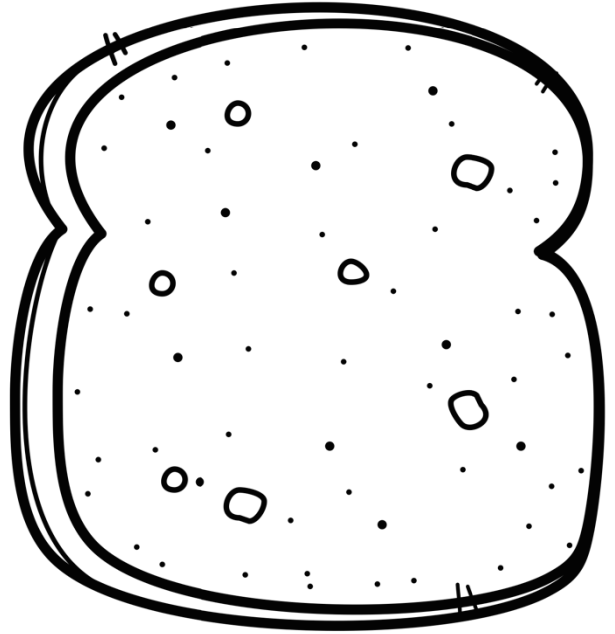
Day One

**DIRTY**



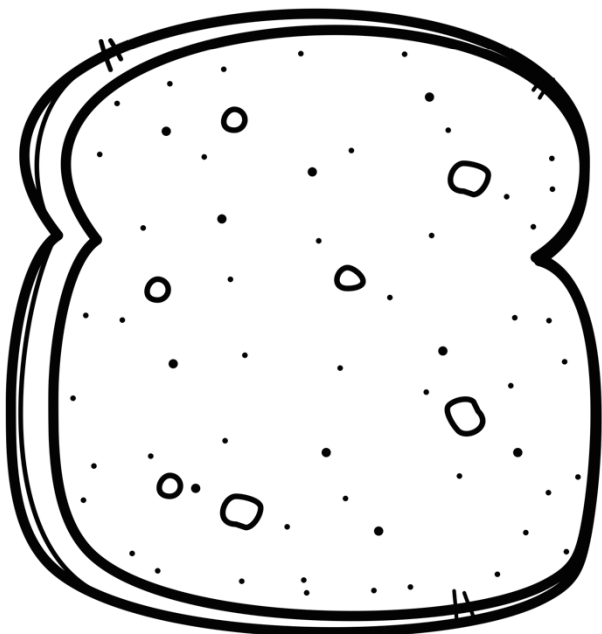
Day Two

**DIRTY**



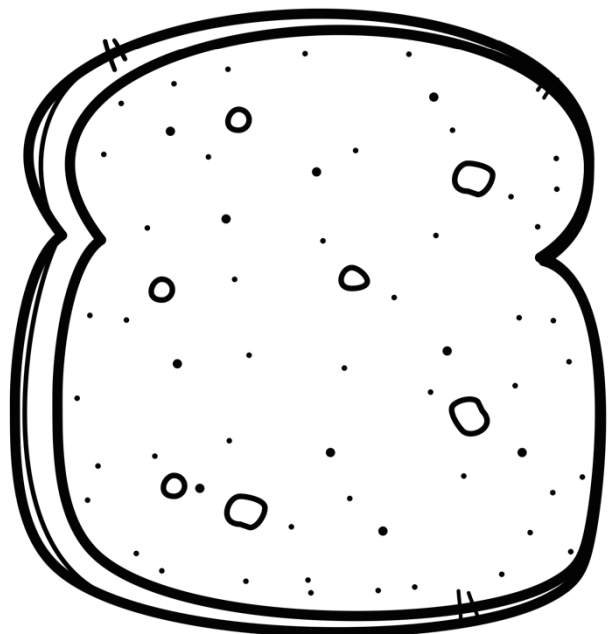
Day Three

**DIRTY**



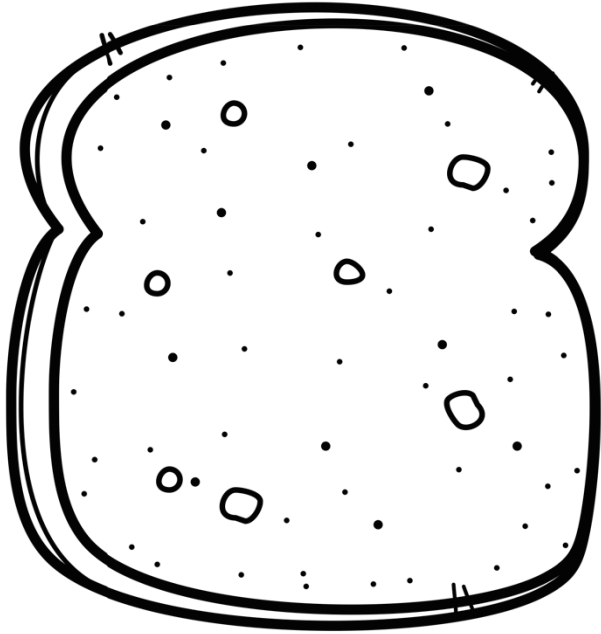
Day Four

**DIRTY**



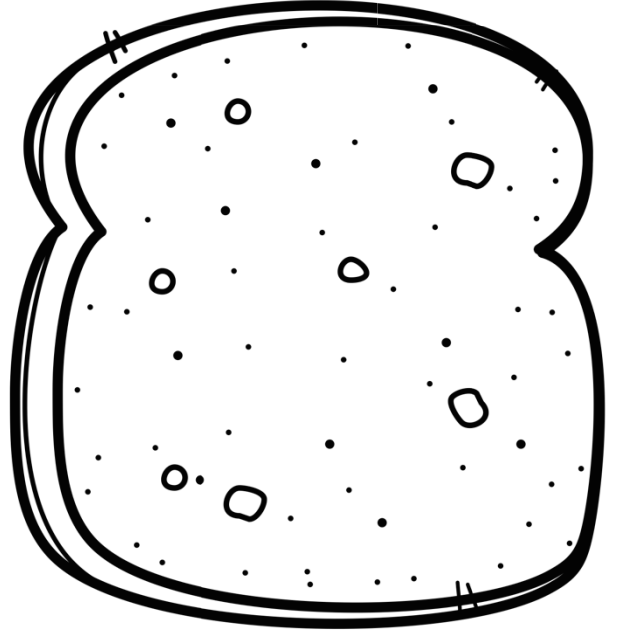
Day Five

**CONTROL**



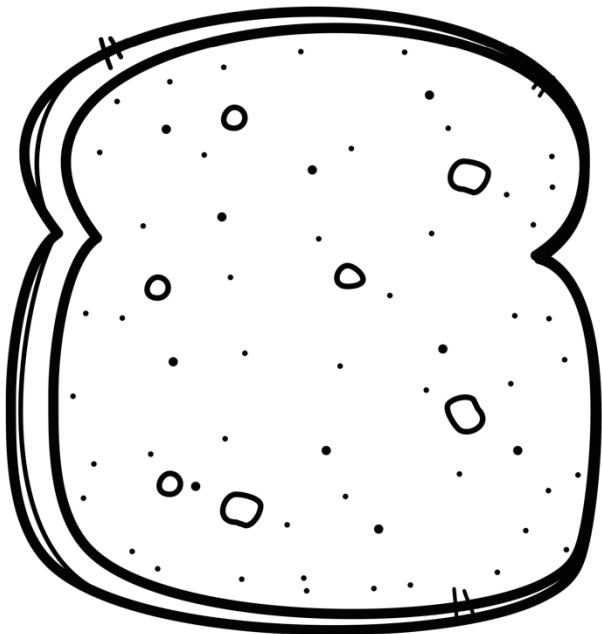
Day Five

**CLEAN**

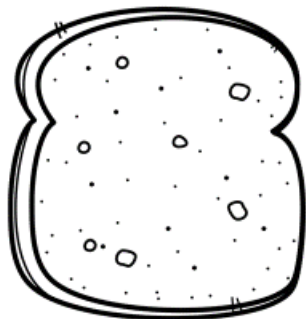


Day Five

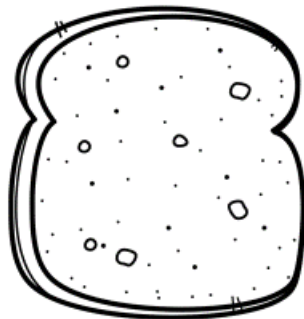
**DIRTY**



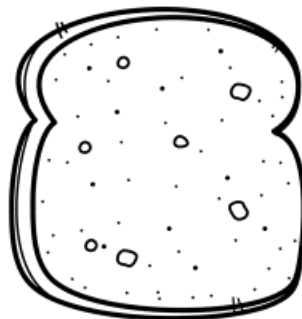
Day One  
**CONTROL**



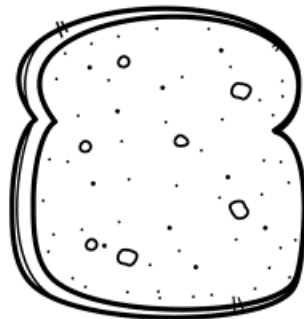
Day Two  
**CONTROL**



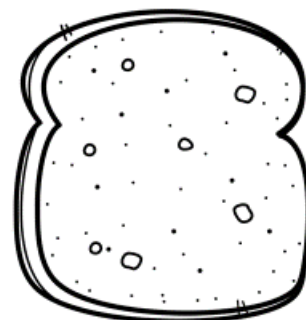
Day One  
**CLEAN**



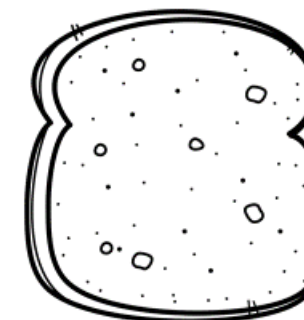
Day Two  
**CLEAN**



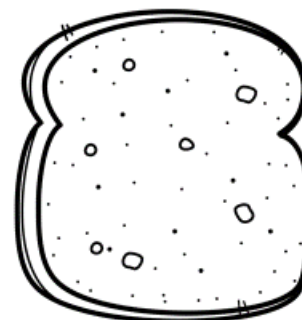
Day Three  
**CONTROL**



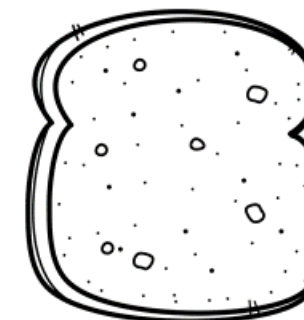
Day Four  
**CONTROL**



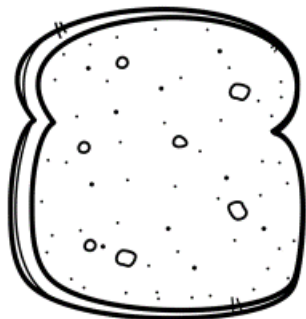
Day Three  
**CLEAN**



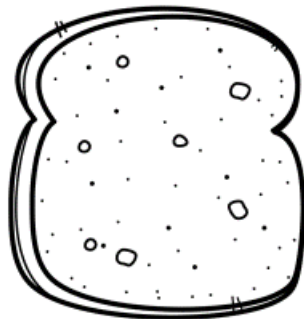
Day Four  
**CLEAN**



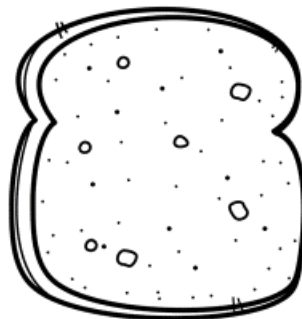
Day One  
**DIRTY**



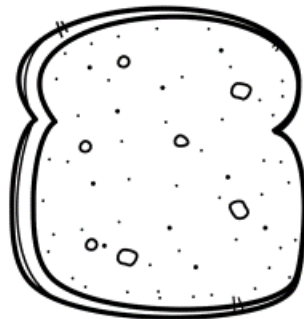
Day Two  
**DIRTY**



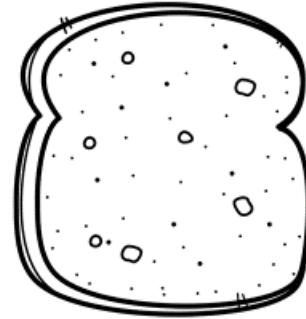
Day Five  
**CONTROL**



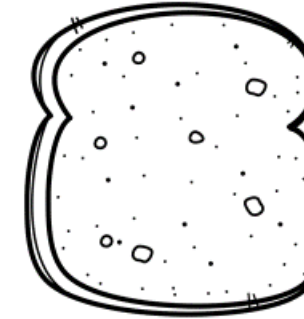
Day Five  
**CLEAN**



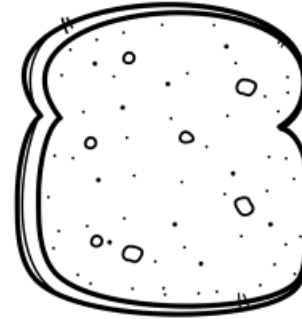
Day Three  
**DIRTY**



Day Four  
**DIRTY**



Day Five  
**DIRTY**





# Variables

*Changes in experiment*

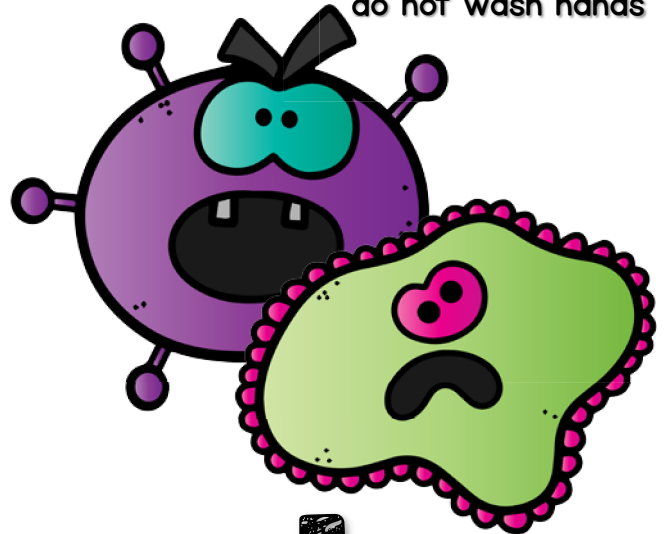
**CLEAN**

wash hands



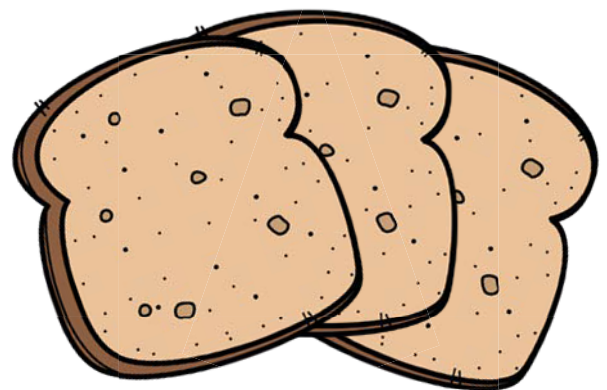
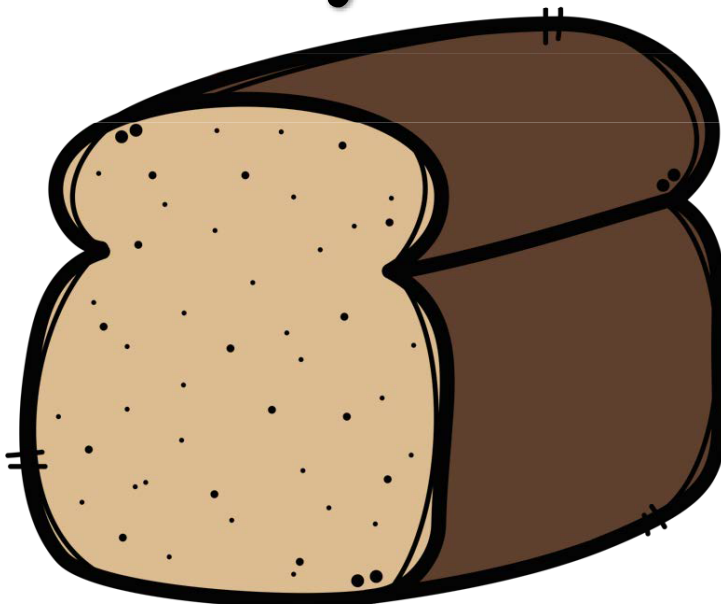
**DIRTY**

do not wash hands



# Controls

*Stays the same in experiment*



**Bread**

# Variables

*Changes in experiment*

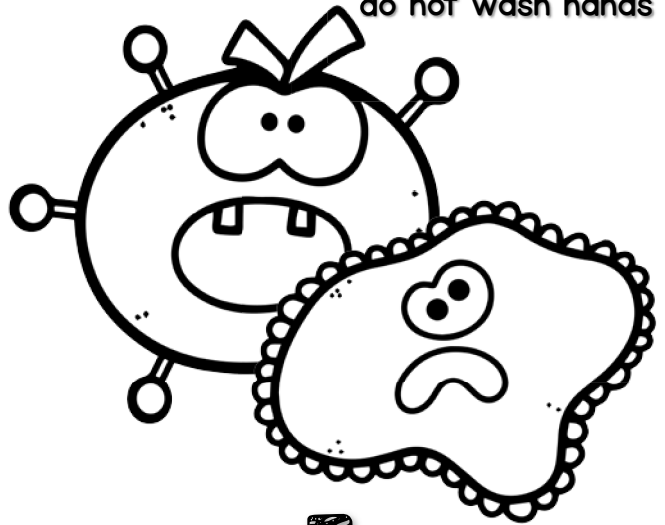
**CLEAN**

wash hands



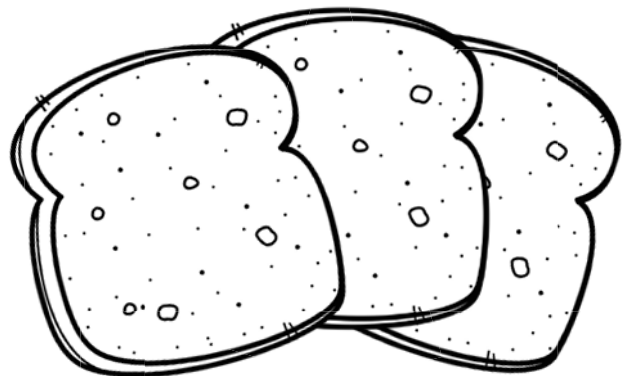
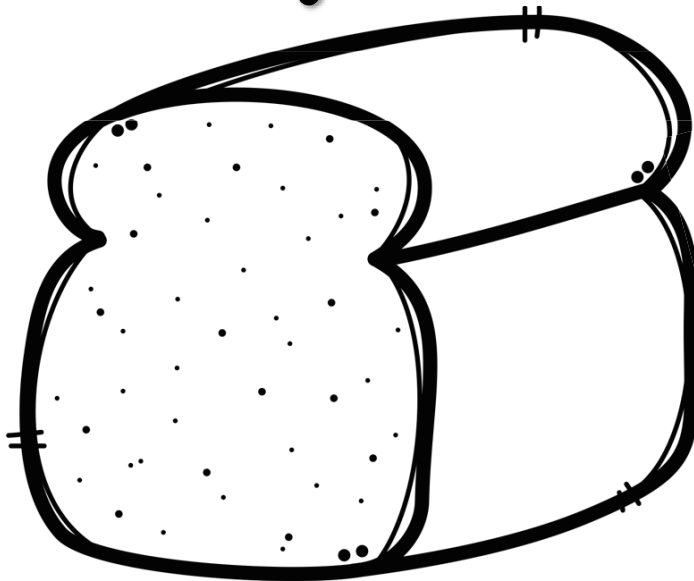
**DIRTY**

do not wash hands



# Controls

*Stays the same in experiment*



**Bread**

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

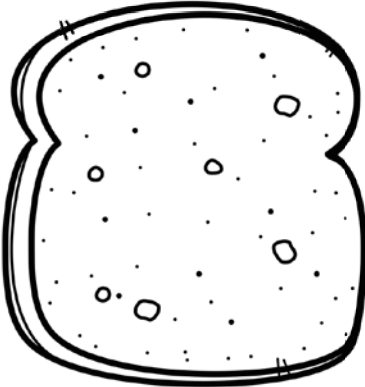
Date: \_\_\_\_\_

# Results

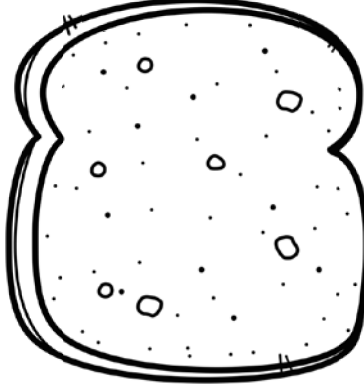
How did our germs effect the pieces of bread?



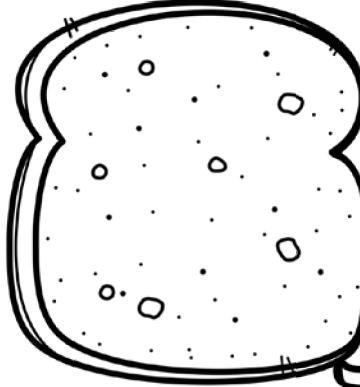
Control



Clean



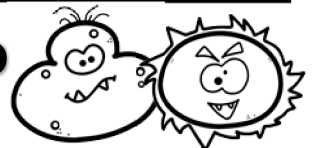
Dirty



I should \_\_\_\_\_ my hands often.

How do you know?

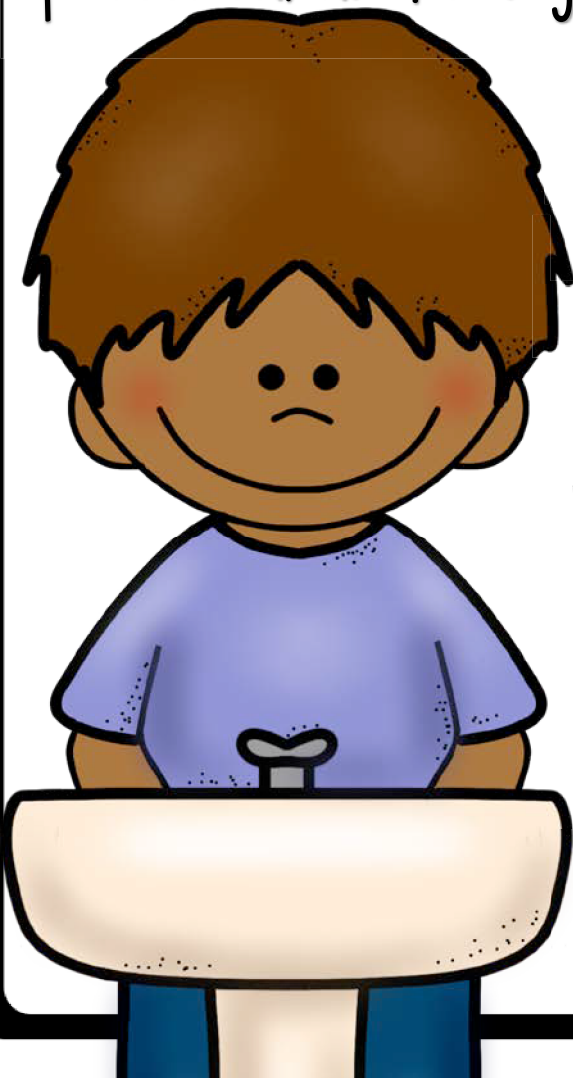
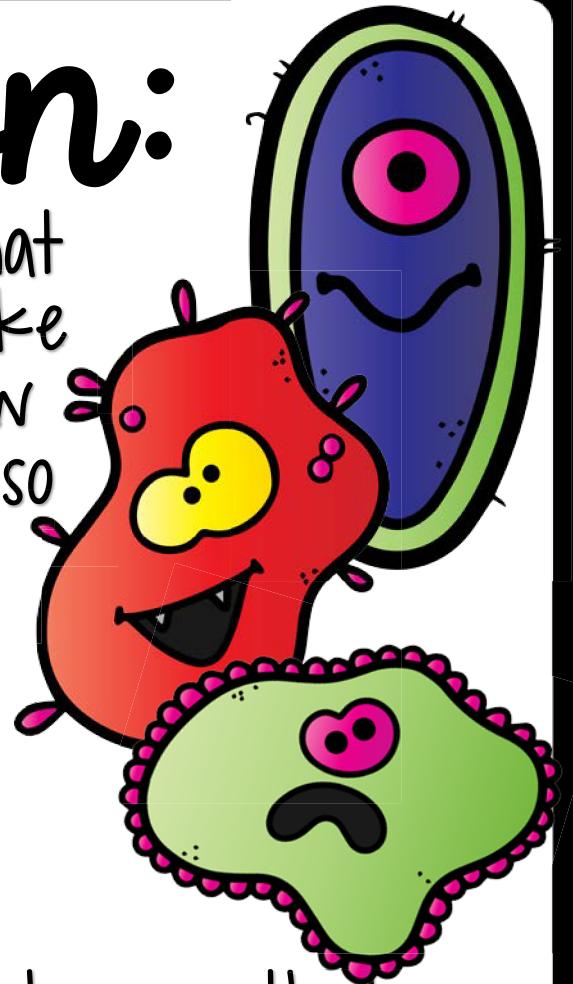
How can you help not spread germs?





# Conclusion:

Germ is tiny living things that give us can cause disease or make us sick. You may not even know that you have them, they are so small. They can make you feel yucky! Germs can be found all around the world in many different places. Four types of germs are viruses, bacteria, protozoa, and fungi.



We must make sure that we are protecting ourselves from germs by washing our hands and staying away from things that may carry germs.

Washing your hands often with soap and water is a great way to keep yourself healthy and feeling well. Make sure when you sneeze or cough you cover your nose and mouth and wash your hands right after!



Title for board

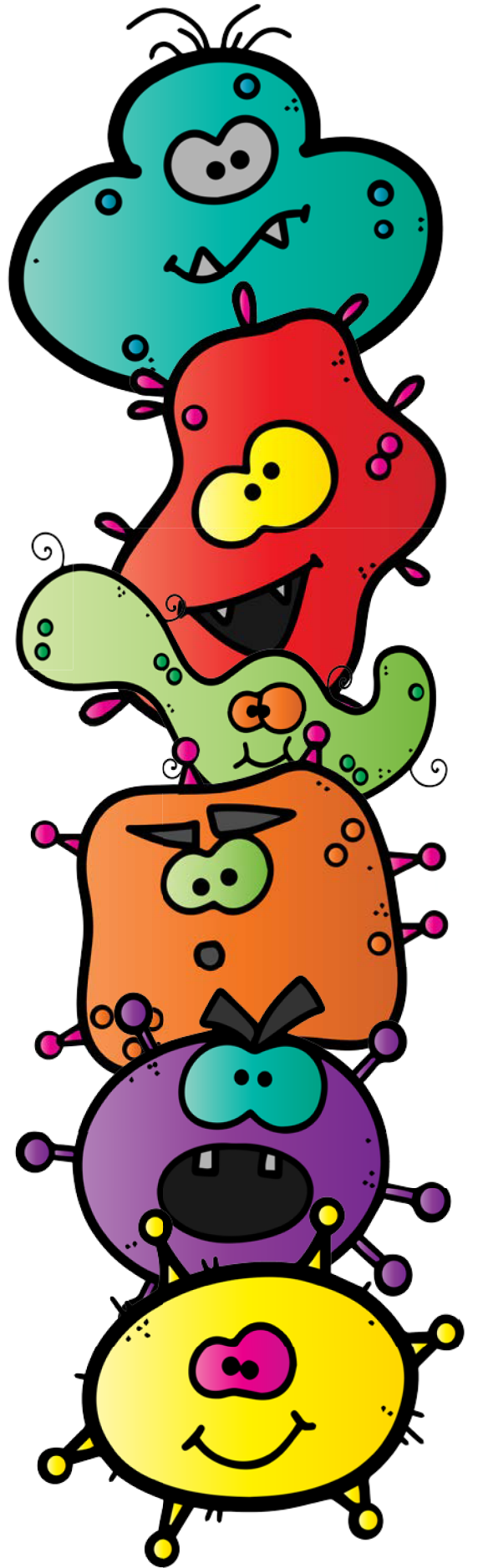
Wash your hands



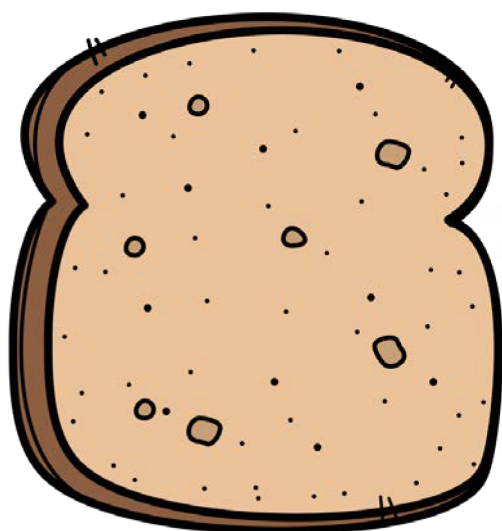
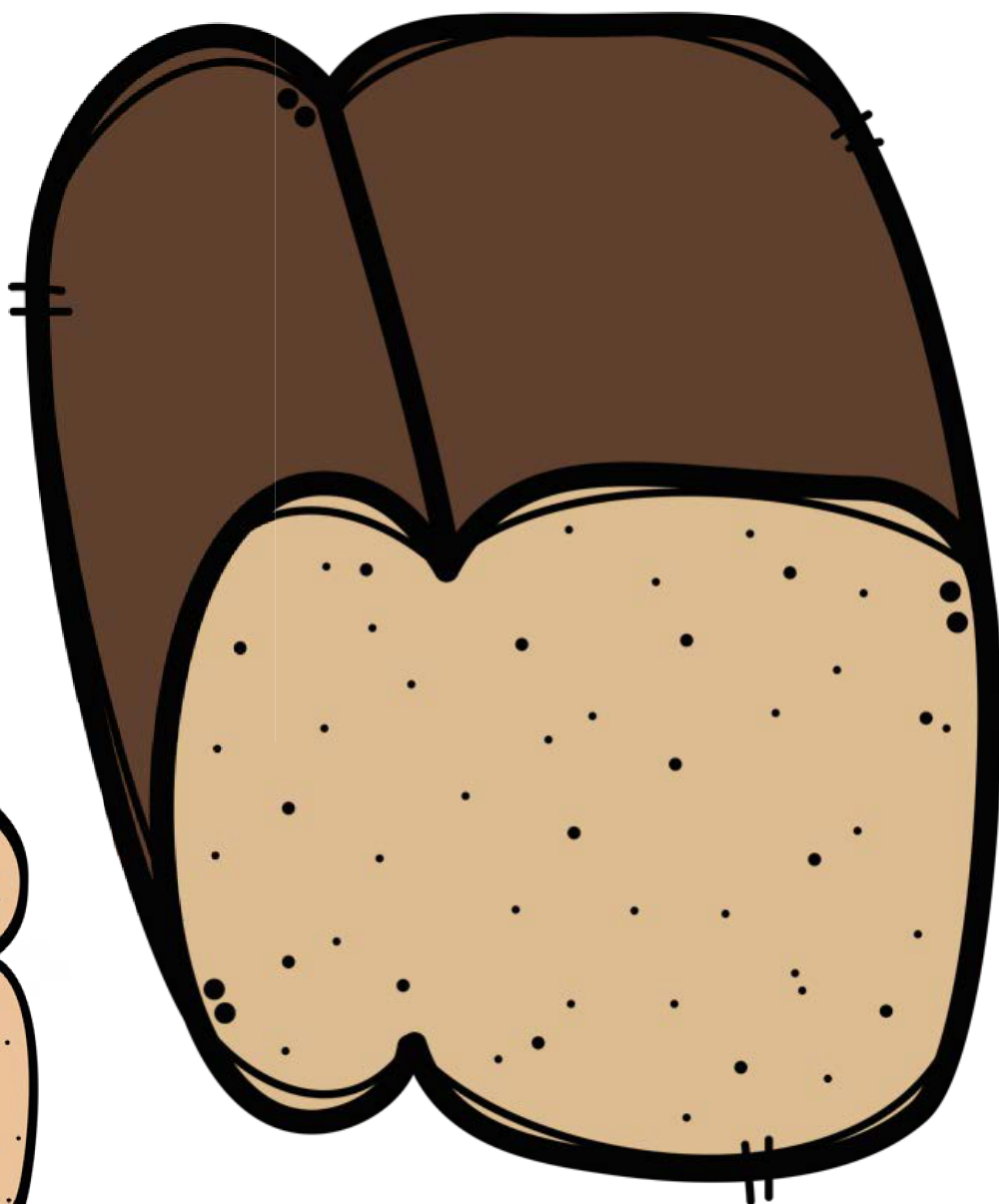
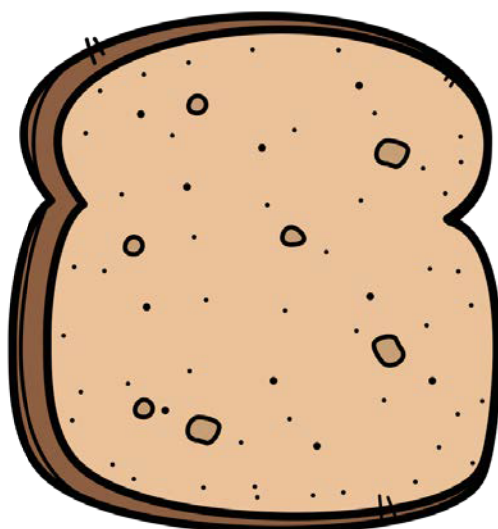
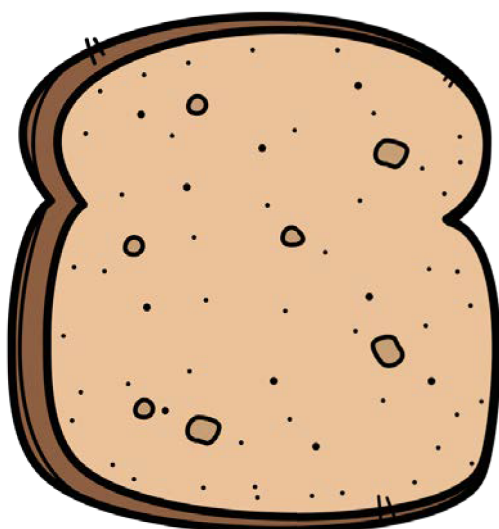
Hand Wash



to



Handwritten letters 's', 's', 'd', 'd', 'u' in a black, textured font.





# Step One:

Ask a question

# Step Two:

Create a hypothesis

# Step Three:

Test your hypothesis

# Step Four:

Analyze your data

# Step Five:

Share your results



# STEP ONE:

## ASK A QUESTION

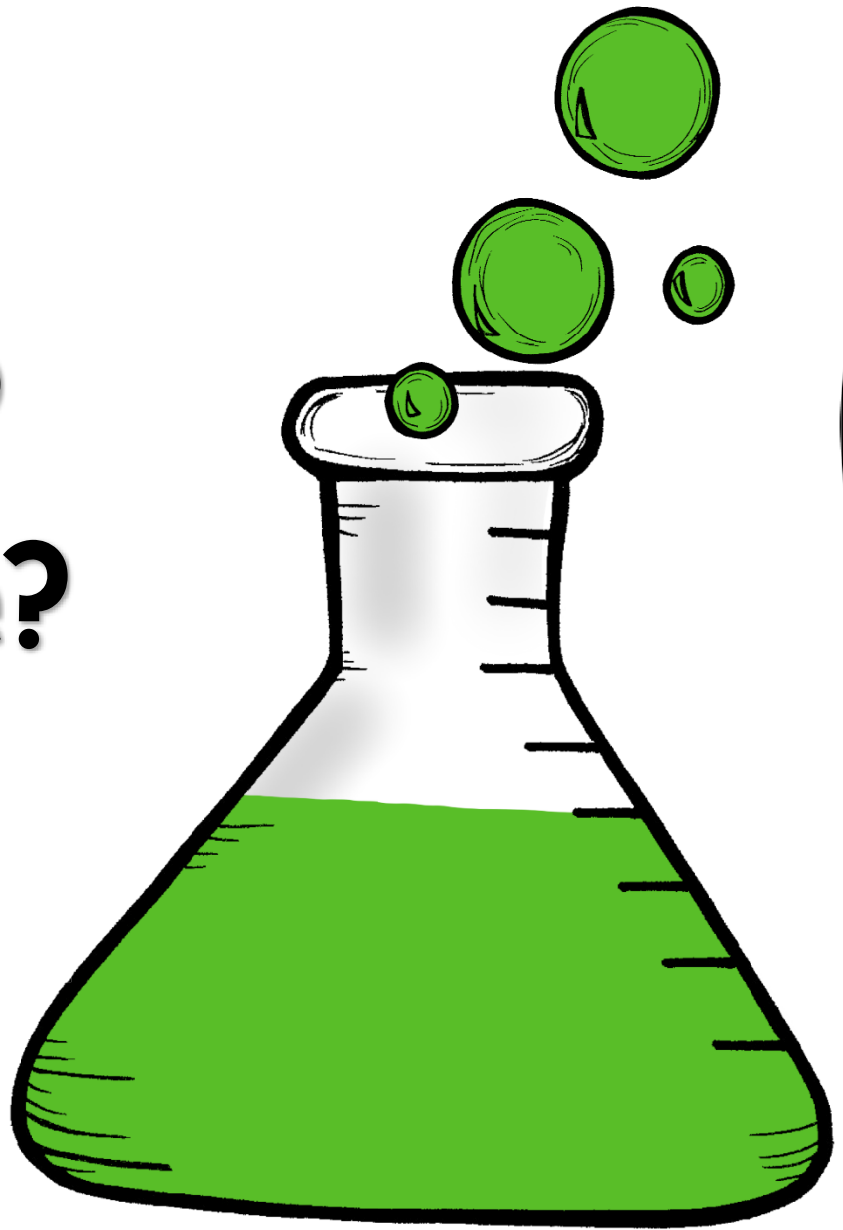
what?

when?

where?

why?

how?

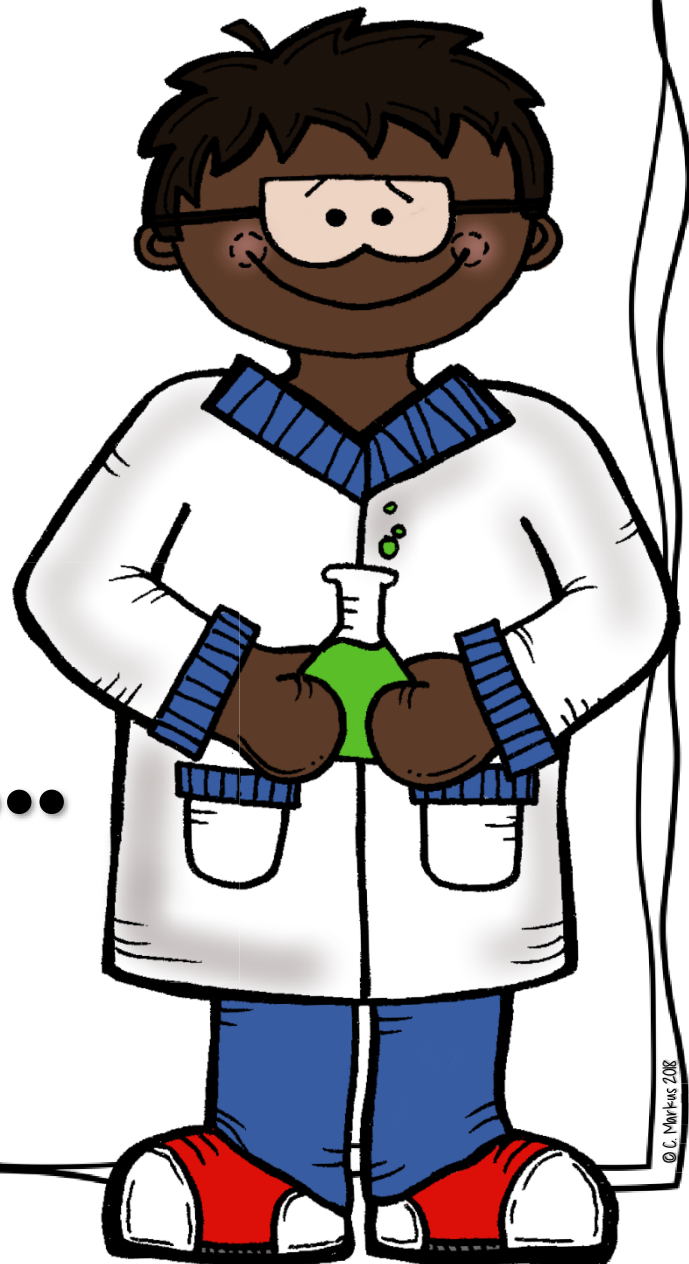


# STEP TWO:

## CREATE A HYPOTHESIS

I think...

I predict...

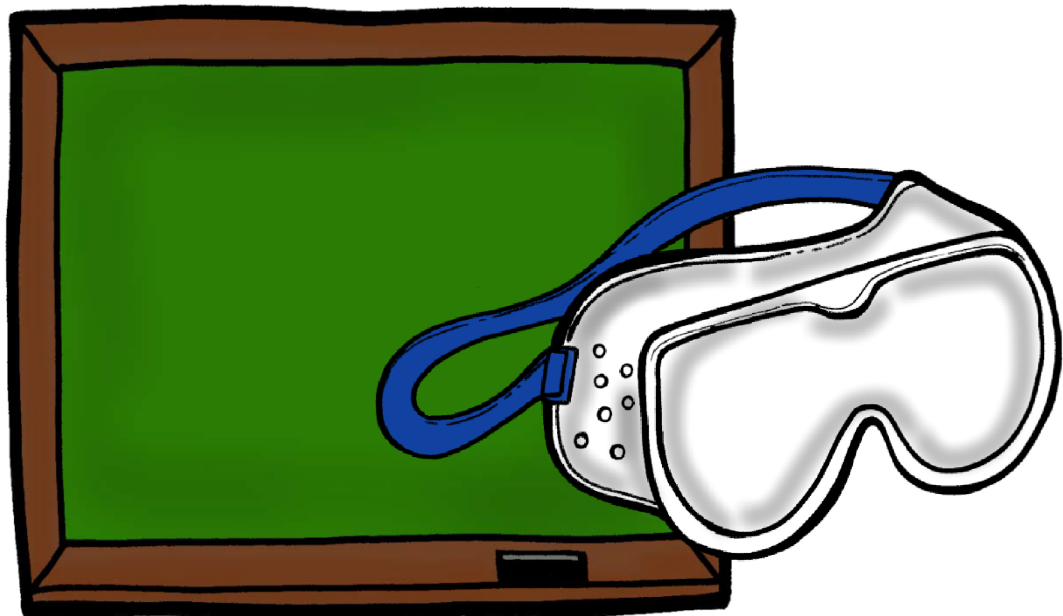


# **STEP THREE:**

## **TEST YOUR HYPOTHESIS**

### **experiment!**

### **collect data!**



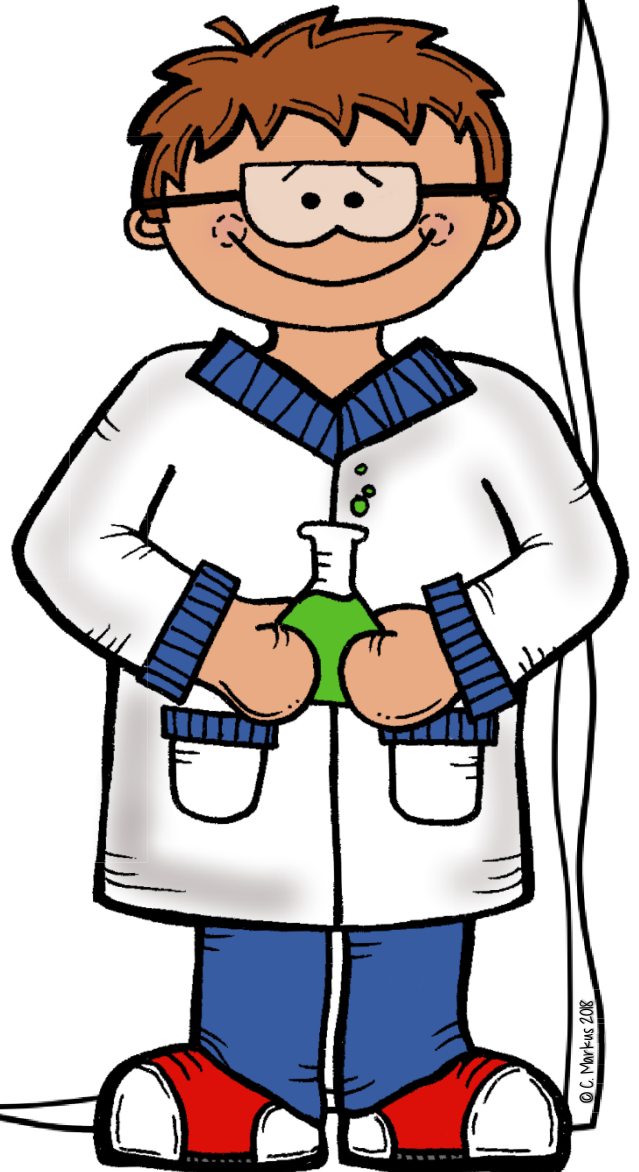
# STEP FOUR:

## ANALYZE YOUR DATA

charts!

graphs!

notes!

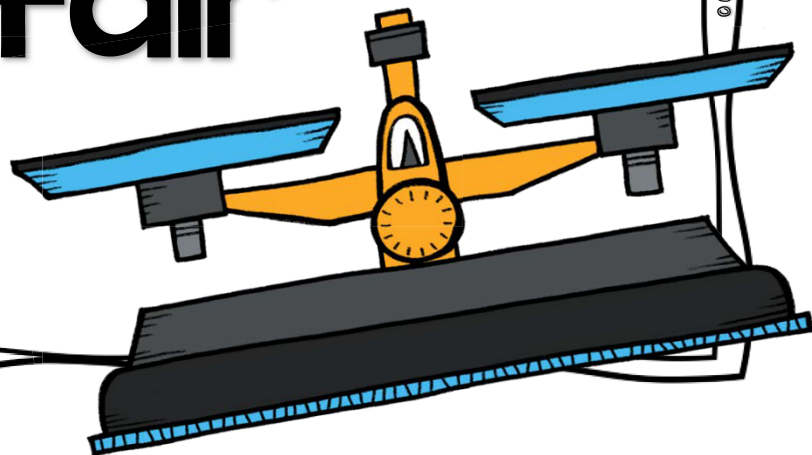




# STEP FIVE:

## SHARE YOUR RESULTS

Make  
your  
science fair  
board.



# THANK YOU!

**FOLLOW ME!**



Click on the logos



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