

# SCIENCE: science tools

1ST & 2ND GRADE

Directions: Complete the following questions watched.

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

What was \_\_\_\_\_

List as ma \_\_\_\_\_

Which fact \_\_\_\_\_

Was there \_\_\_\_\_

Is there a \_\_\_\_\_

**Show What You Know**

Directions: Complete the following diagram for the video you just watched.

Main Idea

Topic 1

Topic 2

What I learned about this topic is...

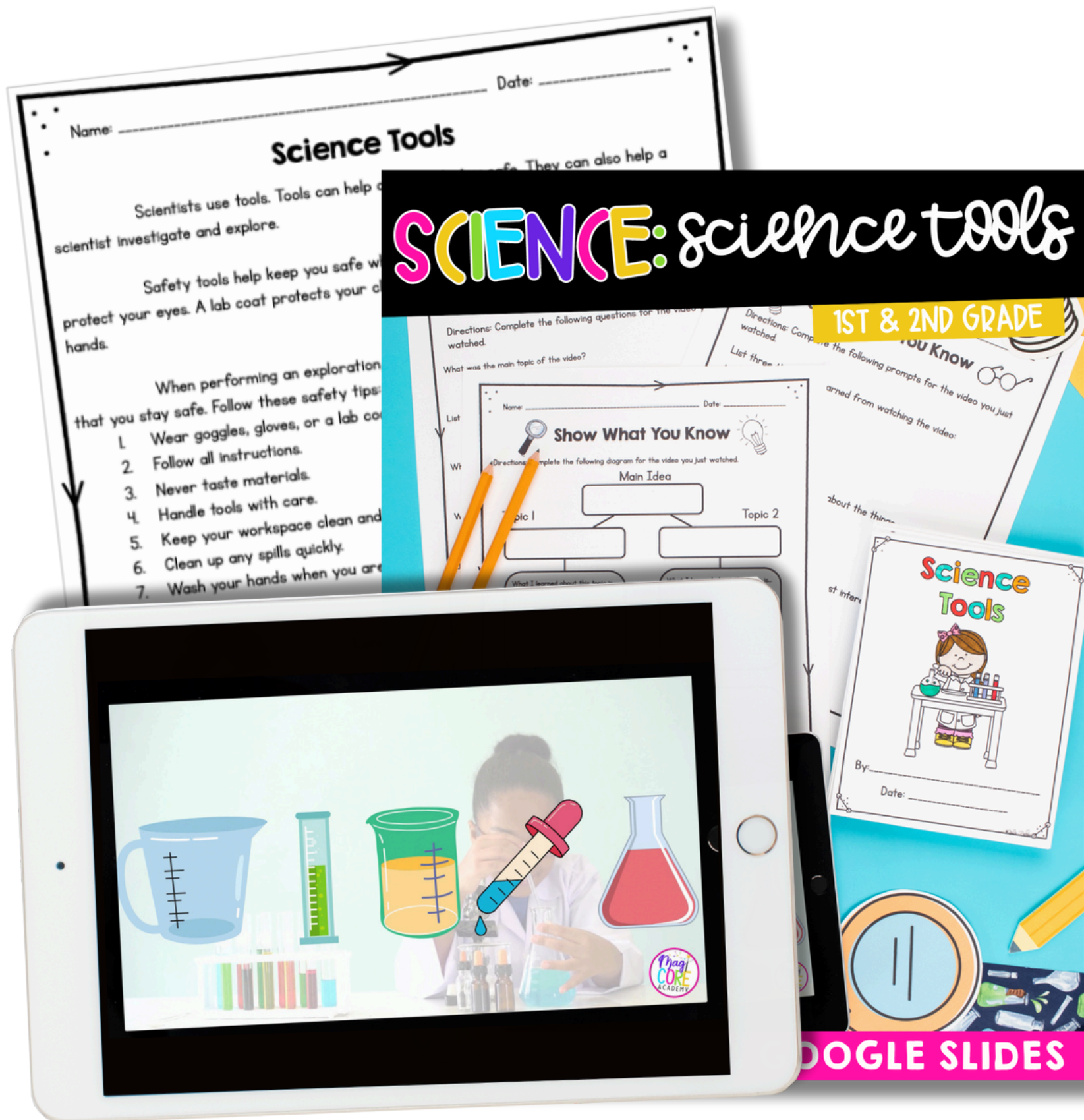
What I also know about this topic is...

**Science Tools**



PRINTABLE & GOOGLE SLIDES

# WHAT'S INSIDE?



**PRINTABLE** PDFs and  
**DIGITAL** Google Slides unit to  
teach all about science tools.

- Custom Video Lesson
- Reading Passage & Questions
- Mini Book & Vocabulary
- Worksheet & Activities
- Experiments & Explorations
- Quiz

Printable and Google  
Slides Included



# VIDEO & BRAINSTORMING

- Custom video to teach content in an engaging format.
- Prior knowledge and video graphic organizers.



Worksheet titled "Show What You Know" with fields for Name and Date. Directions: Complete the following questions watched.

What was \_\_\_\_\_

List as many \_\_\_\_\_

Which fact \_\_\_\_\_

Was there \_\_\_\_\_

Is there a \_\_\_\_\_

Worksheet titled "Show What You Know" with fields for Name and Date. Directions: Complete the following diagram for the video you just watched.

Main Idea

Topic 1

Topic 2

What I learned about this topic is...

What I also know about this topic is...

By: \_\_\_\_\_

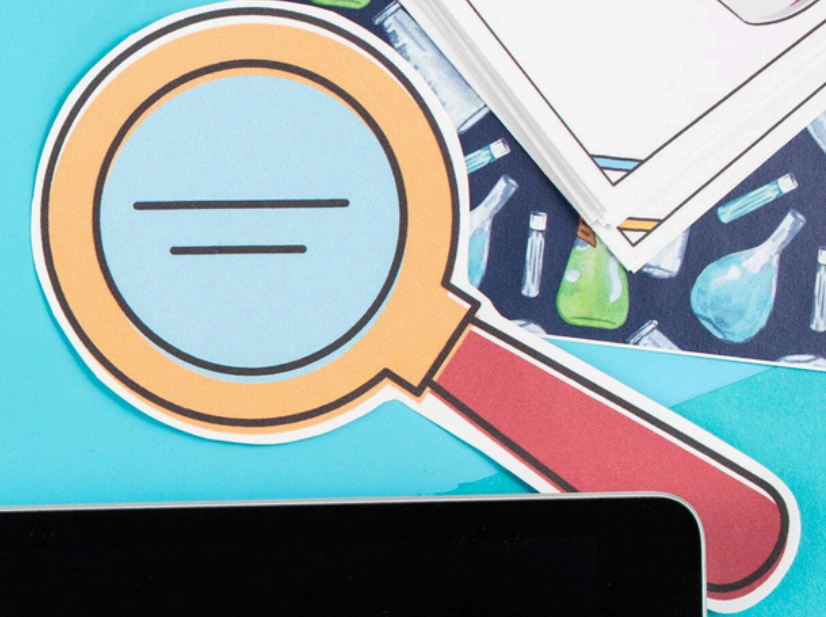
Date: \_\_\_\_\_

Worksheet titled "Science Tools" with an illustration of a girl in a lab coat and a worksheet with fields for Name and Date.

Science Tools

By: \_\_\_\_\_

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



# PASSAGES & QUESTIONS

- Passage & Question Set.

- Same content as custom video.

- Reinforces concepts and vocabulary.



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

## Science Tools Questions

What is the purpose of safety tools for scientists?  
To help them protect themselves during experiments  
To make their work easier.  
To ensure they are following all of the rules of science

Which tool would you use to measure the volume of a liquid?  
a. Thermometer  
b. Magnifying glass  
c. Tape measure  
d. Graduated cylinder

3. What does a thermometer measure?

4. How can you tell if an object is made of metal?  
a. Use a magnet  
b. Use a scale  
c. Use a measuring cup  
d. Use a graduated cylinder

5. Why is it important to measure accurately?  
\_\_\_\_\_

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


## Science Tools

Scientists use tools. Tools can help a scientist stay safe. They can also help a scientist investigate and explore.


Safety tools help keep you safe when you are performing an exploration. They protect your eyes. A lab coat protects your clothes from getting dirty. Gloves protect your hands.

When performing an exploration, it is important that you stay safe. Follow these safety tips:


1. Wear goggles, gloves, or a lab coat when needed.
2. Follow all instructions.
3. Never taste materials.
4. Handle tools with care.
5. Keep your workspace clean and organized.
6. Clean up any spills quickly.
7. Wash your hands when you are done.



**Length Measurement Tools**  
Some science tools measure length. A yardstick or meterstick measures longer objects. A tape measure measures objects that are very long or round.



**Liquid Measurement Tools**  
Some tools tell you how much liquid you have. This is called measuring the volume. Some tools that measure volume include a measuring cup, graduated cylinder, beaker, dropper, and flask.



## SAFETY TIPS

-  Wear goggles, gloves, or a lab coat when needed
-  Keep your workplace clean & organized
-  Clean up any spills quickly
-  Wash your hands when you are done
-  Handle tools with care
-  Follow all instructions
-  Never taste materials



# MINI BOOK

- Vocabulary Cards
- Fill-in-the-blank mini book to hold students accountable to content and concepts



**Glossary**  
Fill in the word that matches each definition:  
Word bank: ruler, measuring tape, measuring cup, safety goggles, h  
\_\_\_\_\_ a tool that helps you see  
\_\_\_\_\_ a tool that attracts  
\_\_\_\_\_ a tool that measu  
\_\_\_\_\_ a tool that me  
be used to m  
\_\_\_\_\_ a tool that  
\_\_\_\_\_ helps kn  
\_\_\_\_\_ a to

**Liquid Measurement Tools**  
Label the liquid measurement tools: cup, graduated cylinder, beaker  
When people use \_\_\_\_\_ that you  
Show what the thermometer would look like on a hot day.  
Draw something on a balance.

**Length Measurement Tools**  
Label the science tools that measure length: yardstick, meter stick, ruler  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
These science tools help us measure length. \_\_\_\_\_ me  
\_\_\_\_\_ o  
longer objects  
objects that \_\_\_\_\_  
A \_\_\_\_\_  
object. The  
object is.

**Science Tools**  
When scientists use tools, they are more sure to measure (and less likely to be inaccurate). You can use a balance to measure the mass of an object. The mass of an object is the amount of matter in the object.  
By: \_\_\_\_\_  
Date: \_\_\_\_\_



# PRACTICE PAGES

- Video & Question Pages
- Mini Book
- Science Tools Match Up
- Science Safety Lab
- Design the Ideal Science Lab
- Tools Sort
- Length Measurement Tools
- Observation Tools
- Compare & Contrast
- Science Safety Web

## Compare & Contrast

Directions: Use the Venn Diagram below to compare the features two types of science tools.

Science Safety

Length Measurement

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

### Science Tools Match Up

Directions: Draw a line matching the science tool with its correct function and use.

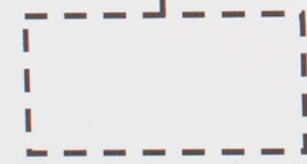
Ruler

This tool tells you the mass of an object

This tool measures objects that are very long or round

## Science Safety Web

Directions: Cut and paste the correct safety tips around the scientist. Cross out or throw away those that are wrong.



## Science Lab Safety Safe or Unsafe

Directions: Look at all the statements about the science lab. Color actions or words that describe SAFE science lab behavior as green, and color the actions or words that describe UNSAFE science lab behavior as purple.

Wearing safety goggles.

Tasting something without permission.

Keeping non-science foods and liquids away during science lab.

Ignoring the instructor and doing what you think is best.

Cleaning up your workspace.

Wash your hands when you are finished.

Leaving spilled liquid on the

Purposefully washing liquid your lab partner.

Working with the science lab

Following directions if you don't understand.

## Science Tools



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



# EXPERIMENTS

Interpret Data: Write sentences explaining the data you collected.

I measure with a ruler when \_\_\_\_\_

I measure with a yardstick or meter stick when \_\_\_\_\_

I measure with a measuring tape when \_\_\_\_\_

Drawing Conclusions:  
I discovered \_\_\_\_\_

Reflections: What questions do you have? What do you wonder  
would want to do differently?

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

## Length Measurement Tools

Objective: to understand how and when to use length measurement tools

Materials: ruler, yardstick, meter stick, measuring tape

Procedure:

1. Observe each length measurement tool. Record what you notice about the units of each tool and how large each tool is.
2. Measure each object with the appropriate tool.
3. Check your work with another group. If you both have different answers, recheck your measurements together.

Observe:

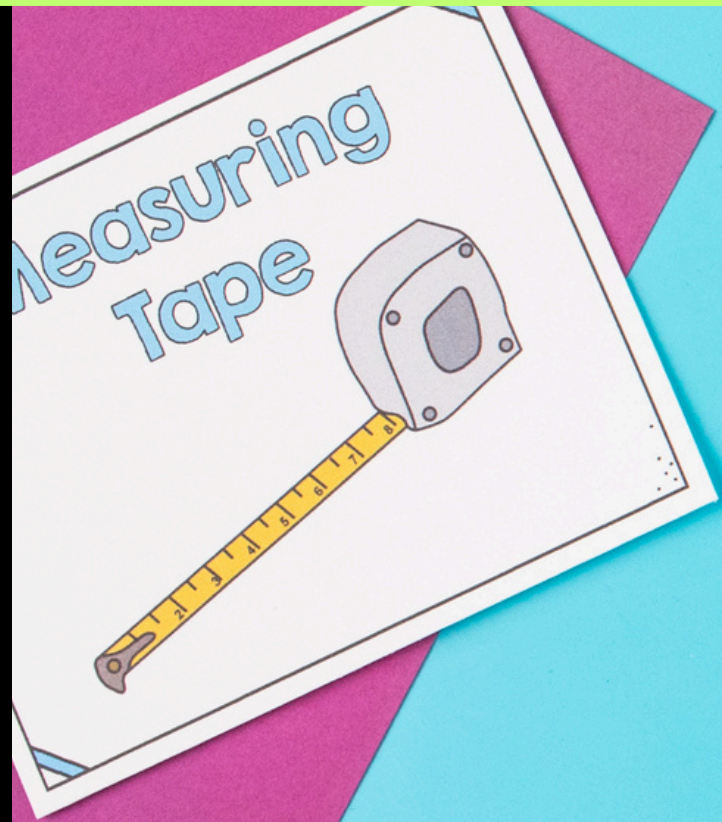
	Ruler	Meter Stick	Yardstick	Measuring Tape
Units				
Size (large, medium, small tool)				
Observations				
Types of things you would measure with tool				



- Experiments that follow the Scientific Method
- Allow students to collaborate and explore!



# QUIZ





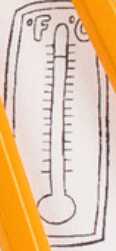

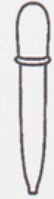

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Measurement Tool Quiz

1. What are two tools you could use to measure the length of a line?  
\_\_\_\_\_  
\_\_\_\_\_

★  
\_\_\_\_\_

★  
2. Label each measurement tool.

 ----- _____	 ----- _____	 ----- _____
 ----- _____	 ----- _____	 ----- _____

3. Name two safety tools a scientist would use during an experiment. Why is it important for a scientist to use these tools?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Simple, quick quiz to ensure students understand basic concepts.





# UPGRADE THEIR SKILLS!

## SCIENCE Bundle

1st & 2nd Grade Print & Digital

The bundle includes 18 science units, each with a colorful cover and sample pages:

- Science: A Scientist's Job
- Science: Science Tools
- Science: Matter
- Science: The Human Body
- Science: Force and Motion
- Science: Gravity
- Science: Magnets
- Science: Seasons
- Science: Rocks & Minerals
- Science: All About SOIL
- Science: Air and Wind
- Science: SEVERE WEATHER
- Science: The Sun's Energy
- Science: Butterfly Lifecycle
- Science: Plant Life Cycle
- Science: Living Organisms

Magi CORE

Love this unit, but need something more?  
**TRY THE BUNDLE!**

