SCIENCE · SCIENCE TOOLS AND LAB SAFETY · GRADES 1–4

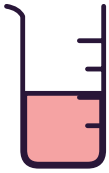
Science Tools

Match a beaker, magnifying glass, ruler, balance, stopwatch and safety goggles to their jobs.

Name: _____ **Date:** _____



Draw a line from each tool to its job.













- protects your eyes
- measures how much time something takes
- makes small things look bigger
- holds, measures and pours liquids
- measures how long something is
- compares how heavy things are

Which tool would you use to time a race?

_____

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SCIENCE · SCIENCE TOOLS AND LAB SAFETY · GRADES 1–5

Lab Safety

Color the six safe choices and put an X on the six unsafe ones, then write the rule you think matters most.

Name: _____ **Date:** _____



Color the safe choices. Put an X on the unsafe ones.

wear goggles when your teacher says to	taste what you are testing	tie back long hair
run around the room	wash your hands after an experiment	mix things just to see what happens
tell a grown-up if something spills or breaks	pick up broken glass	follow the steps in order
eat a snack at the science table	clean up when you are done	rub your eyes while you work

The safety rule I think matters most, and why:

_____

_____

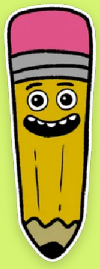
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SCIENCE · SCIENCE TOOLS AND LAB SAFETY · GRADES 1–3

Measure with a Ruler

Guess and then measure six things in centimeters and find how close each guess was.

Name: _____ **Date:** _____



Measure it: line up the end of the object with the 0 on your ruler. Read the number where the object ends. Write the answer in centimeters (cm).

Object	My guess (cm)	I measured (cm)	How far off was I?
a pencil			
a crayon			
a glue stick			
my hand			
my shoe			
a book			

Longest thing _____ **Shortest thing** _____

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SCIENCE · SCIENCE TOOLS AND LAB SAFETY · GRADES K–3

Which Is Heavier?

Predict which of two things is heavier, test them on a balance and record five pairs.

Name: _____ **Date:** _____





A **balance** compares how heavy things are. Put one object in each pan. The **heavier** side goes **down**. If the pans stay level, the objects weigh the same.

Left pan	Right pan	My guess: which is heavier?	Which was heavier?
a crayon			
an apple			
a pencil			
a glue stick			
a book			

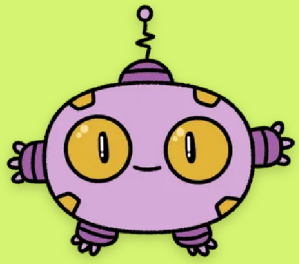
Does the bigger thing always weigh more?

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SCIENCE · SCIENCE TOOLS AND LAB SAFETY · GRADES 2–5

Read a Measuring Cylinder

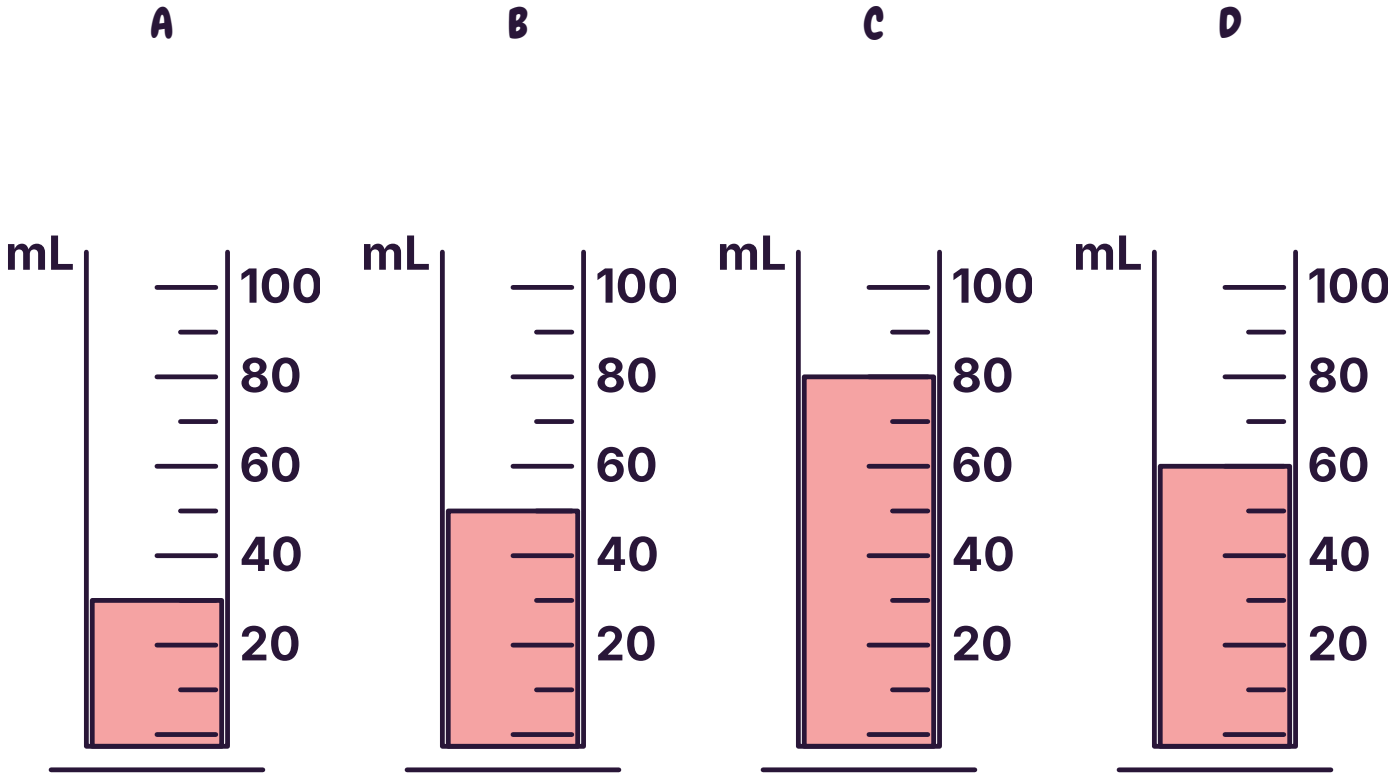
Read the water level in four measuring cylinders in milliliters, then answer three questions.



Name: _____ **Date:** _____

Scientists measure liquids in **milliliters (mL)**. Read the number at the top of the water. Each small line is 10 mL.

1. Write how much water is in each cylinder.



_____ mL _____ mL _____ mL _____ mL

2. Answer the questions.

Which cylinder has the most water? _____

How much more water is in C than in A? _____

If you pour A and B together, how much water is there? _____

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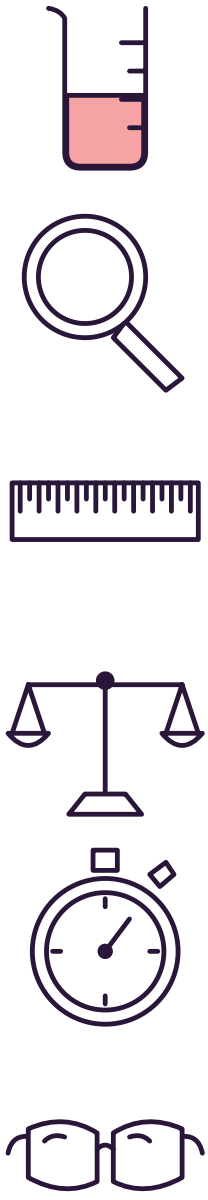
ANSWER KEY · SCIENCE TOOLS AND LAB SAFETY · GRADES 1–4

Answer Key: Science Tools

Answers for grown-ups. Some questions have more than one good answer.



Draw a line from each tool to its job.



- protects your eyes
- measures how much time something takes
- makes small things look bigger
- holds, measures and pours liquids
- measures how long something is
- compares how heavy things are

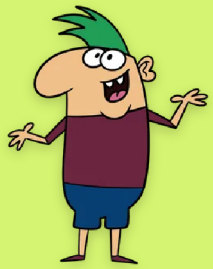
Which tool would you use to time a race?

Art © Kevin Coulston

ANSWER KEY · SCIENCE TOOLS AND LAB SAFETY · GRADES 1–5

Answer Key: Lab Safety

Answers for grown-ups. Some questions have more than one good answer.



Color the safe choices. Put an X on the unsafe ones.

wear goggles when your teacher says to	taste what you are testing	tie back long hair
run around the room	wash your hands after an experiment	mix things just to see what happens
tell a grown-up if something spills or breaks	pick up broken glass	follow the steps in order
eat a snack at the science table	clean up when you are done	rub your eyes while you work

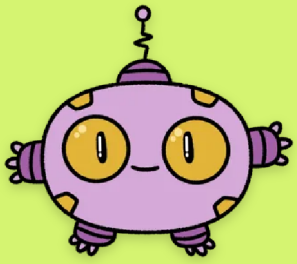
The safety rule I think matters most, and why:

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ANSWER KEY · SCIENCE TOOLS AND LAB SAFETY · GRADES 2–5

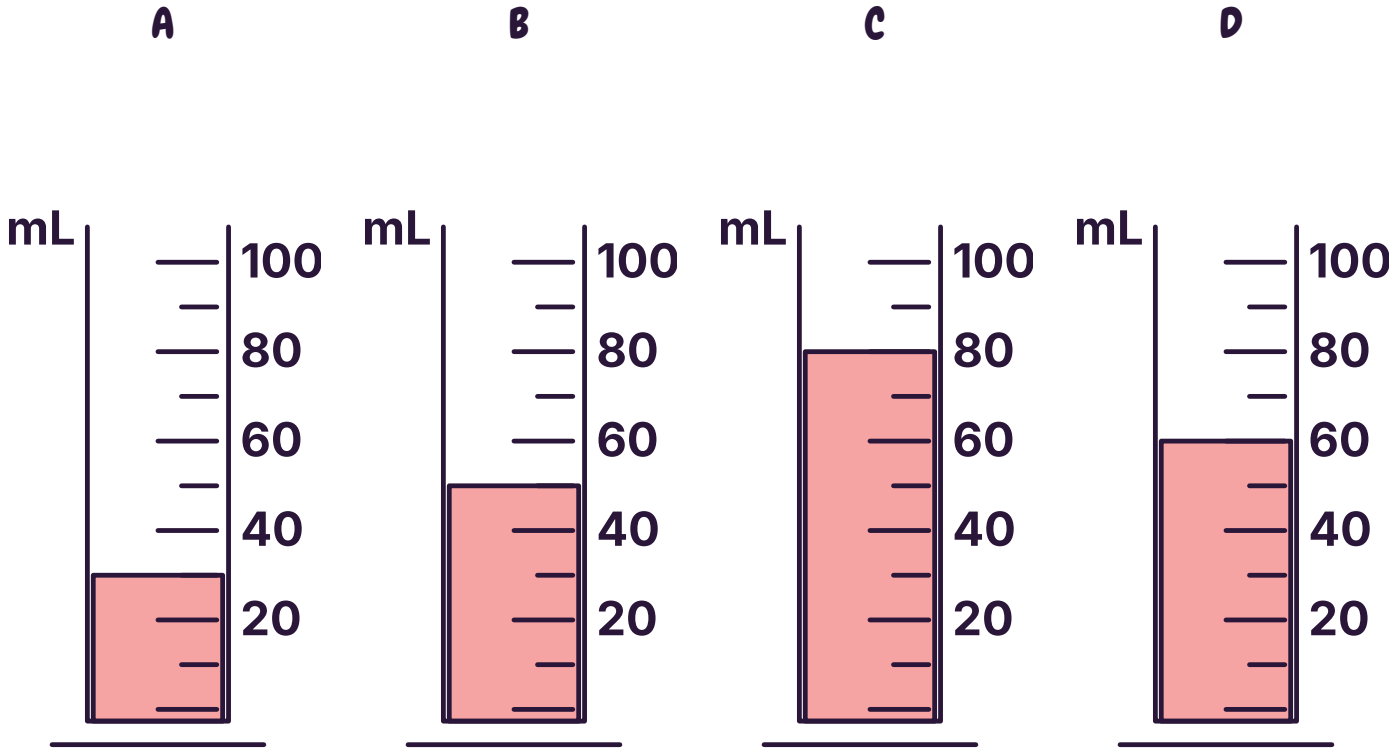
Answer Key: Read a Measuring Cylinder

Answers for grown-ups. Some questions have more than one good answer.



Scientists measure liquids in **milliliters (mL)**. Read the number at the top of the water. Each small line is 10 mL.

1. Write how much water is in each cylinder.



30 mL

50 mL

80 mL

60 mL

2. Answer the questions.

Which cylinder has the most water? C

How much more water is in C than in A? 50 mL

If you pour A and B together, how much water is there? 80 mL

Art © Kevin Coulston