

HANDS-ON LAB SKILLS and SCIENCE INQUIRY

Predictions Based on Patterns

Scientists often make predictions based on all the things they already know are true. **Predict** means to tell what you think is going to happen.

Scientists then test their predictions to see if they are right!

*Let's check what we have learned so far:
What does the word 'predict' mean?*

Tools Used by Scientists

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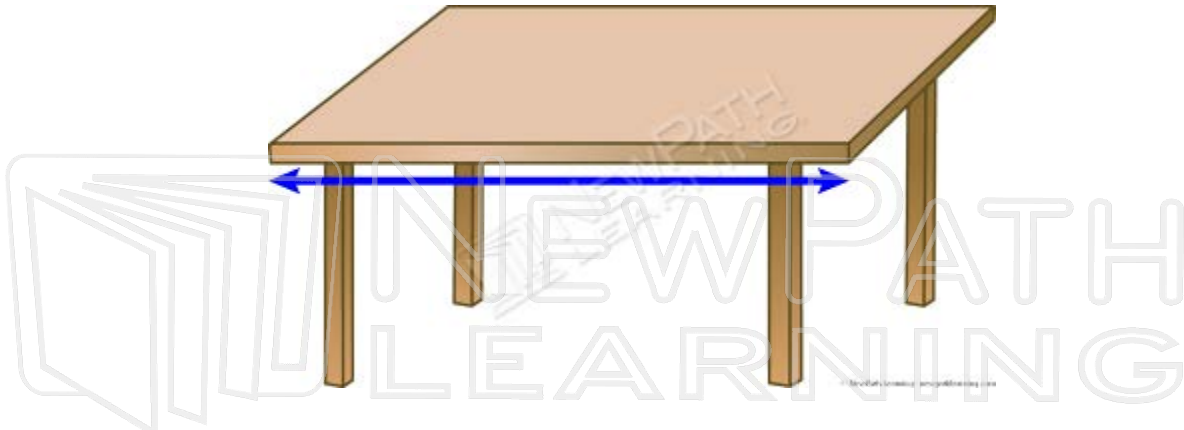


PREVIEW

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Scientists use a **METER STICK** to measure the length of an object that is large, like a table.





Scientists use a **MEASURING CUP** to measure how much of a liquid there is.



Sci
take

PREVIEW

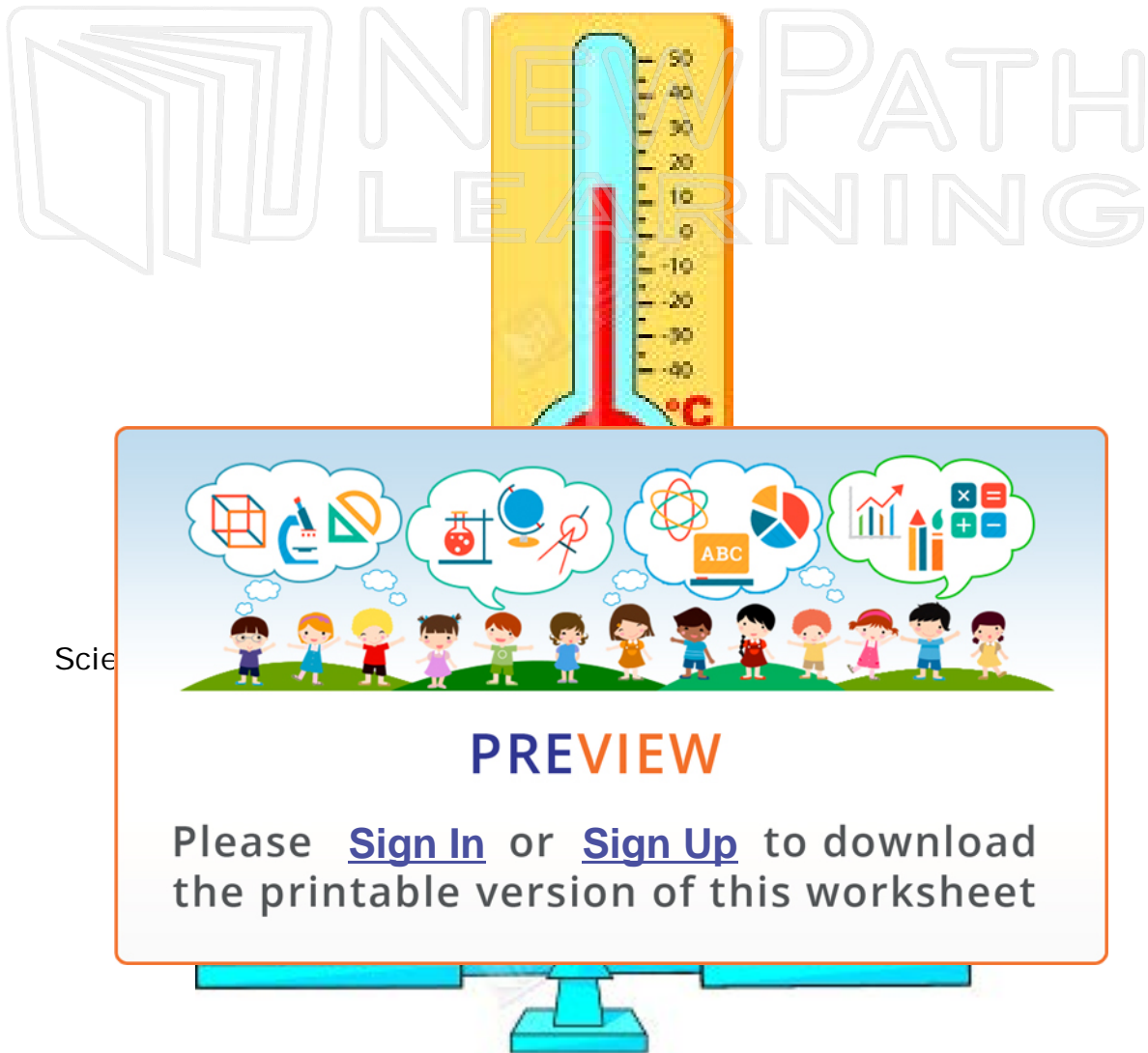
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Scientists use a **HAND LENS** to see something up really close.



Scientists use a **THERMOMETER** to measure the temperature outside and inside.

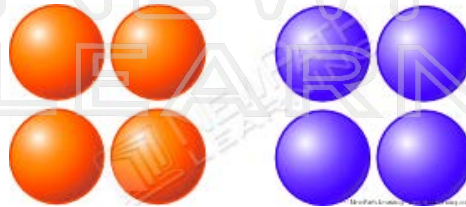
A large illustration of a yellow thermometer with a red liquid column, positioned in the center. To its left is a stack of white books. Behind the thermometer is a large, faint watermark of the text 'NEWPATH LEARNING'. Below the thermometer is a rectangular box with a light blue background and an orange border. Inside the box, at the top, are four thought bubbles containing various educational icons: a cube, a microscope, a protractor, a globe, a flask, a pencil, an atom, a pie chart, a bar graph, and mathematical symbols. Below the bubbles is a row of 14 diverse cartoon children. The word 'Science' is written vertically on the left side of the box. In the center of the box, the word 'PREVIEW' is written in large, bold, blue and orange letters. Below that, the text 'Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet' is displayed in a dark blue font. The box is supported by a blue stand.

*Let's check what we have learned so far:
What tool do scientists use to measure the temperature
outside?*

Sorting and Comparing

Scientists often compare and sort objects based on color, shape, texture, size and weight.

These objects are sorted according to their **COLOR**.



These objects are sorted according to their **SHAPE**.



PREVIEW

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Some
TEXT
The
has



Sometimes scientists compare objects according to their **SIZE**.

If a scientist sorted objects according to their **WEIGHT**, she would need a scale or a balance to see how much the objects weigh.

