

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

Scientists use MANY different tools while they are observing and conducting experiments. Let's explore some tools scientists use.

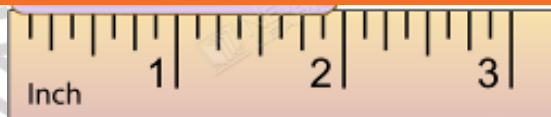
Scientists use tools that are small, like

that is

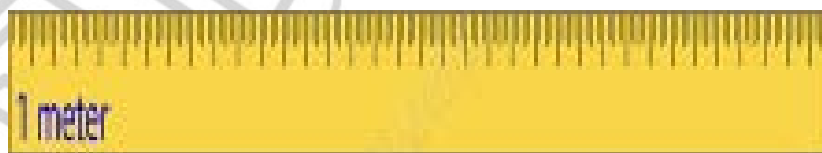


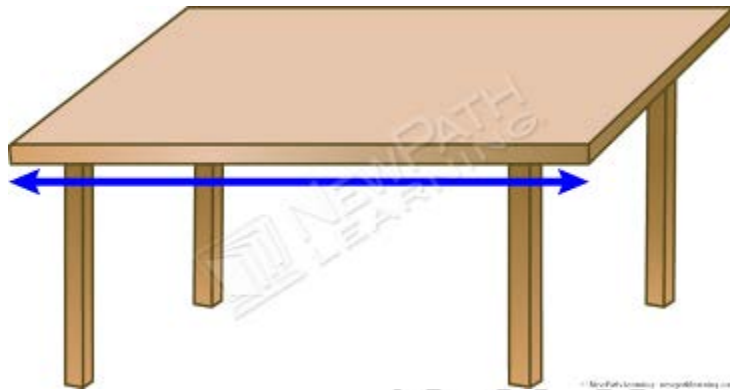
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Scientists use a **METER STICK** to measure the length of an object that is large, like a table.





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



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Scientists
takes to do

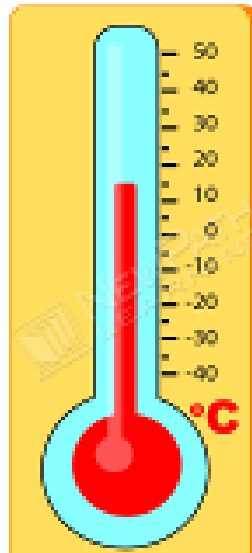
long it



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



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

 **PREVIEW**

Scientists

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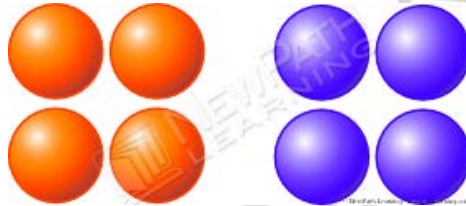


***Let's check what we have learned so far:
What tool do scientists use to measure the temperature outside?***

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**.



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Sometimes
TEXTURE

their

The rock on the left has a smooth texture, and the rock on the right has a rough texture.



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.

