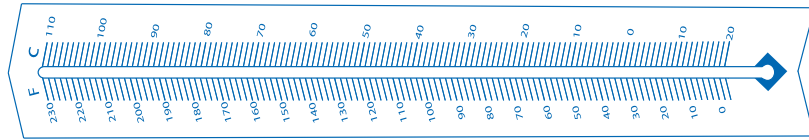


Using a Thermometer

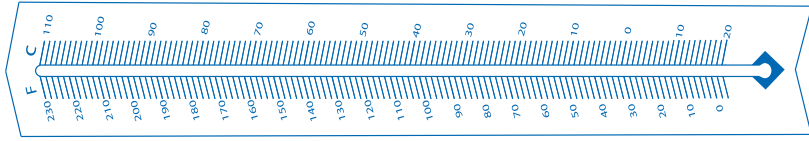
Name _____

Session I—Activity 31

1. Measure the temperature of the cold water and the warm water.



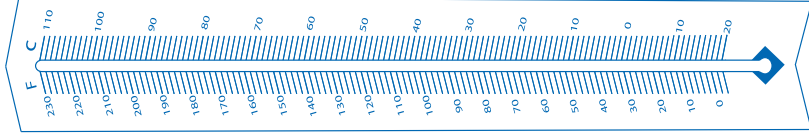
Cold water _____ °F, _____ °C



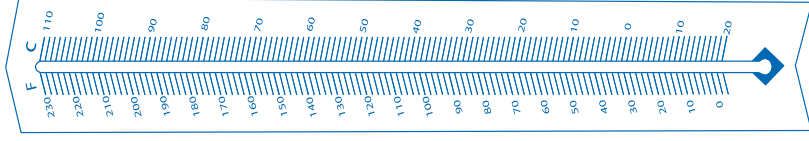
Warm water _____ °F, _____ °C

Session II—Activity 32

2. Measure the temperature in a sunny place and a shady place.

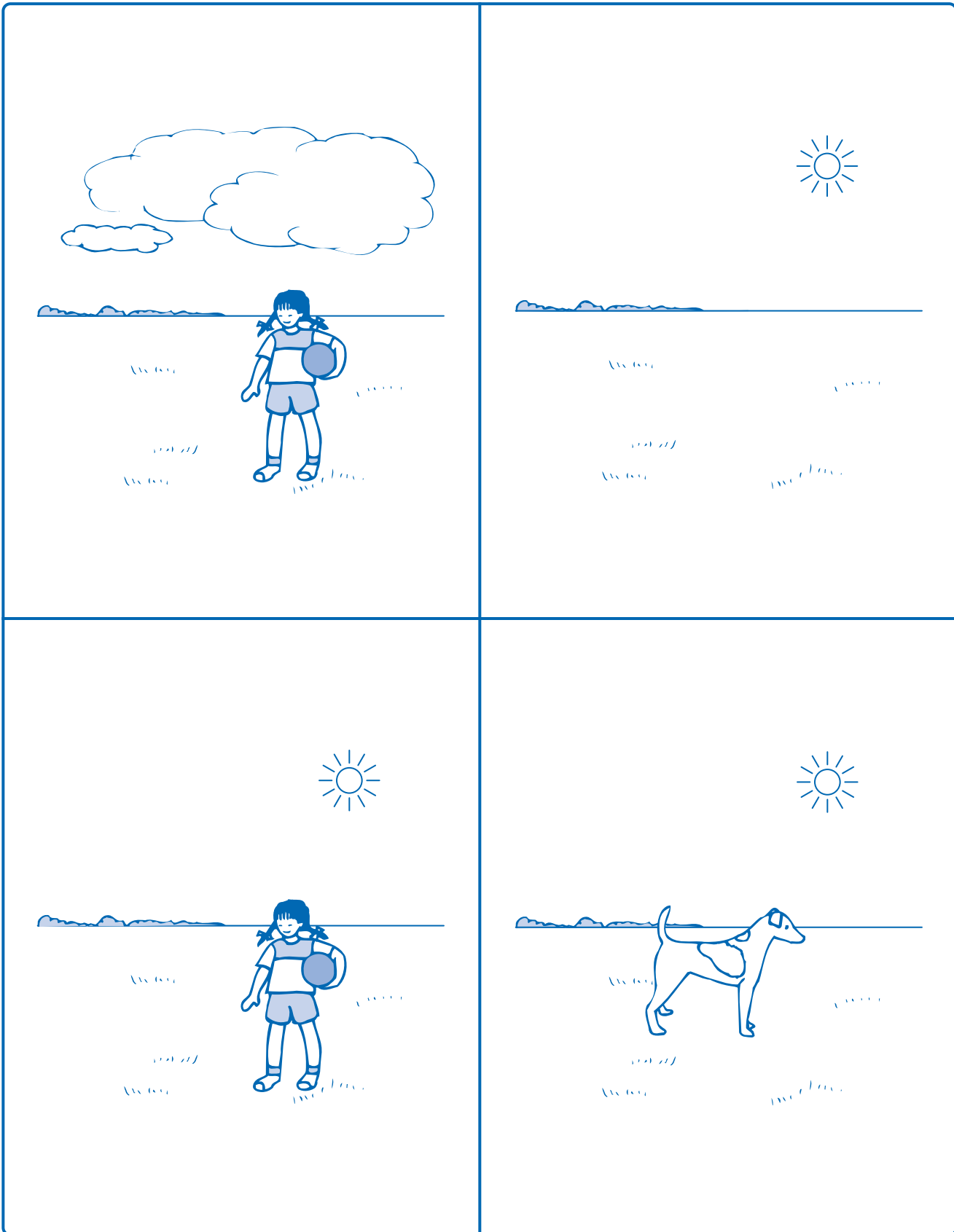


In sunlight _____ °F, _____ °C



In shade _____ °F, _____ °C

What Is a Shadow?



My Shadow

by Robert Louis Stevenson

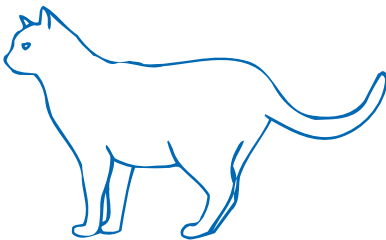
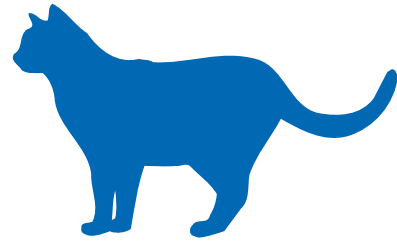
I have a little shadow that goes in and out with me,
And what can be the use of him is more than I can see.
He is very, very like me from the heels up to the head;
And I see him jump before me, when I jump into my bed.

The funniest thing about him is the way he likes to grow—
Not at all like proper children, which is always very slow;
For he sometimes shoots up taller like an india-rubber ball,
And he sometimes goes so little that there's none of him at all.

He hasn't got a notion of how children ought to play,
And can only make a fool of me in every sort of way.
He stays so close behind me, he's a coward you can see;
I'd think shame to stick to nursie as that shadow sticks to me!

One morning, very early, before the Sun was up,
I rose and found the shining dew on every buttercup;
But my lazy little shadow, like an arrant sleepy-head,
Had stayed at home behind me and was fast asleep in bed.

Shadow Drawings



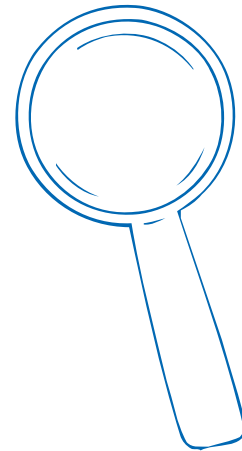
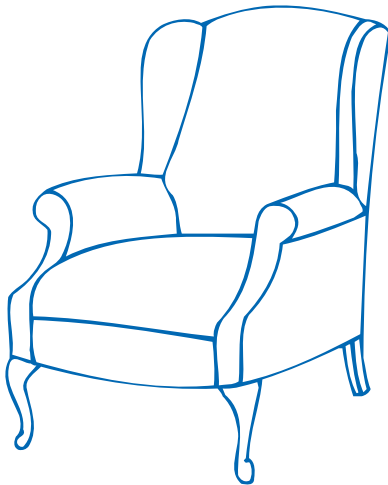
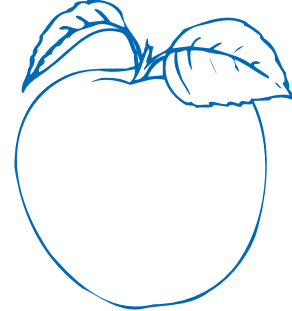
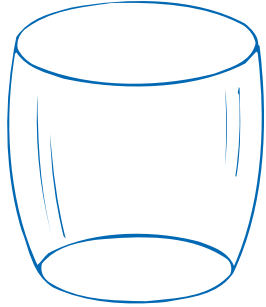
Lincoln Profile Silhouette



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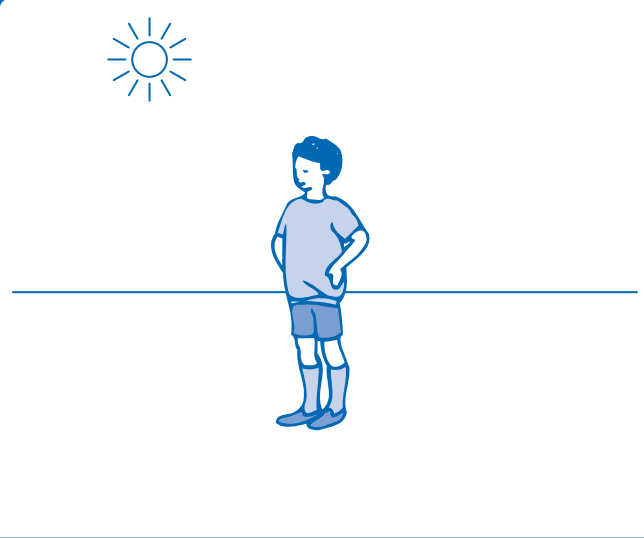
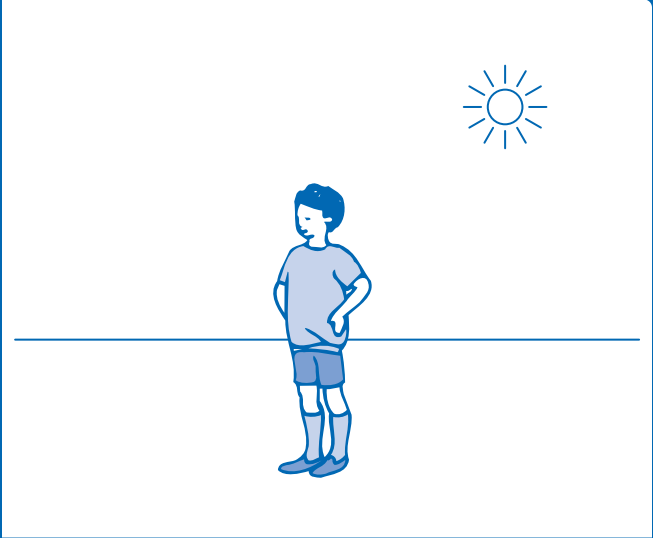
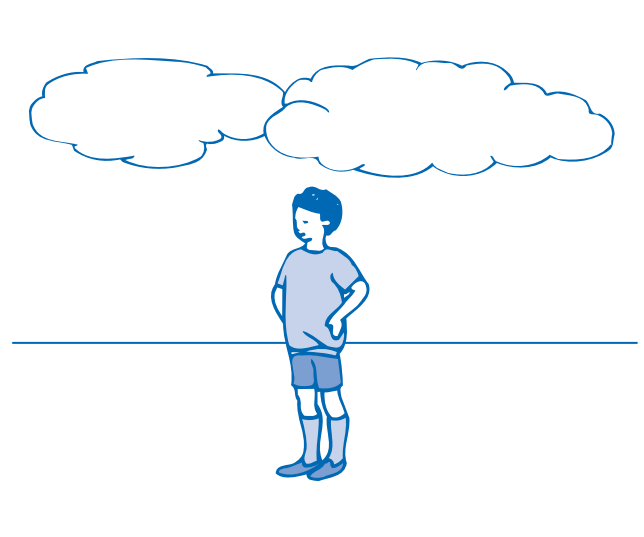
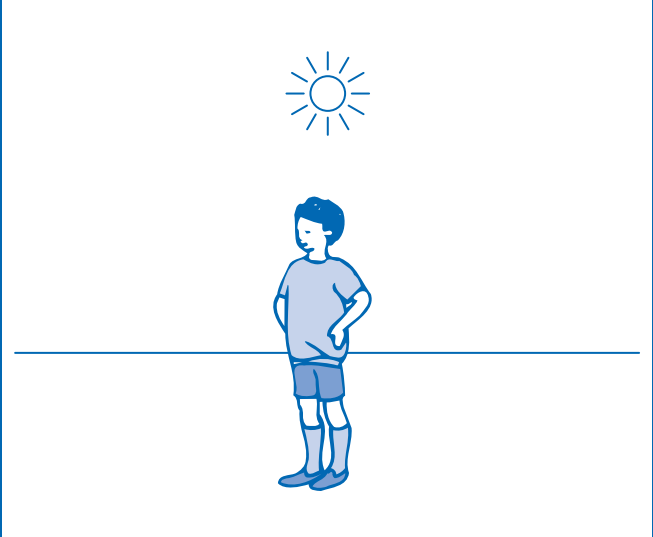
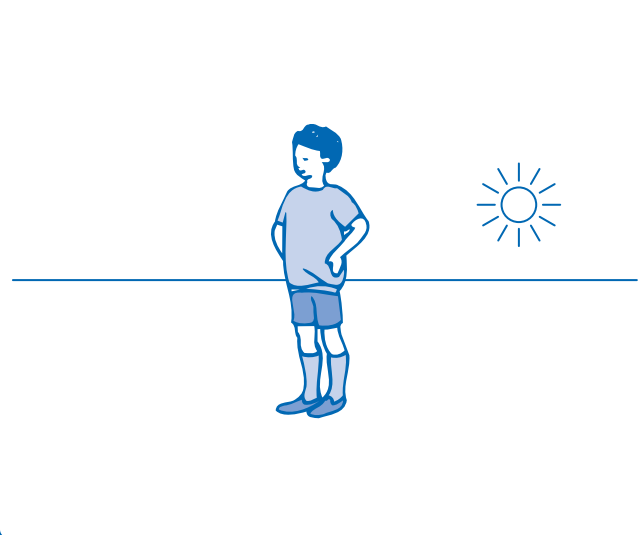
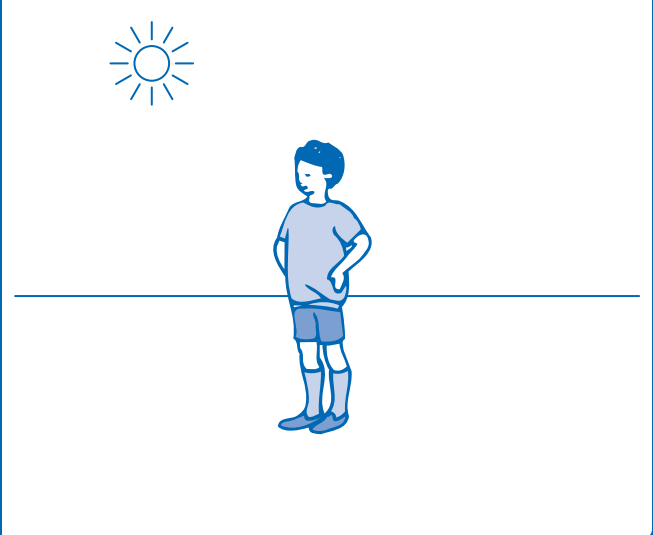
What Makes a Shadow?



Shadows Change Places

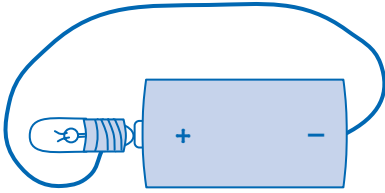
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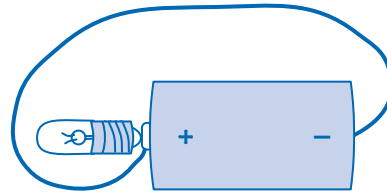
Simple Circuits

1. Will the bulb light? Write *yes* or *no* on the line.



Circuit A

Predict _____



Circuit B

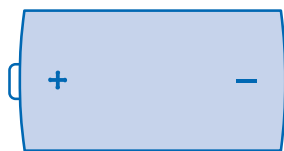
Predict _____

Did the bulb light? Write *yes* or *no* on the line.

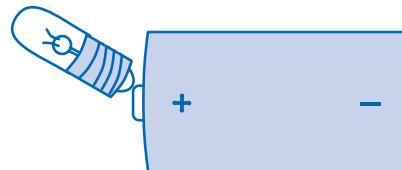
Observe _____

Observe _____

2. Draw the missing wires.



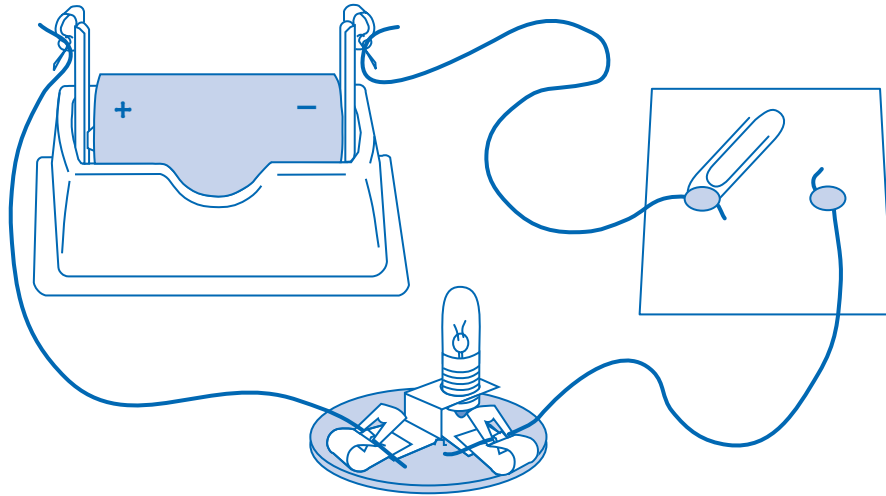
Circuit C



Circuit D

A Paper Clip Switch

Make this circuit.

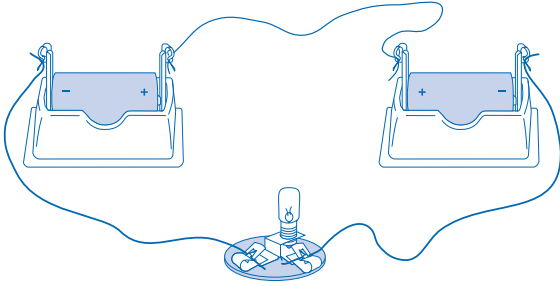


1. What happens when the paper clip touches the other fastener?

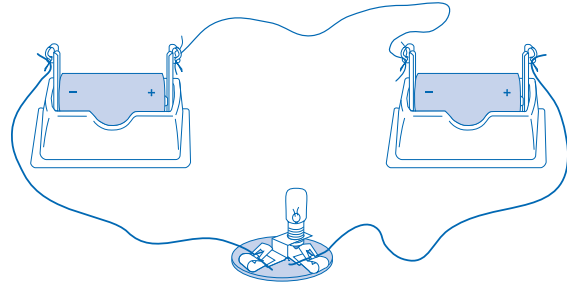
2. What happens when you move the paper clip away from the fastener?

Circuit Experiments

1. Circle the circuit that will light the bulb.

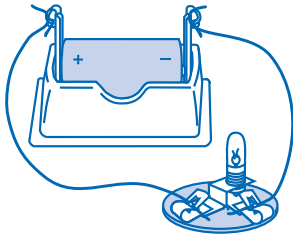


Circuit A

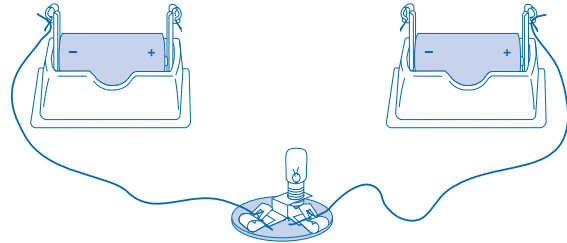


Circuit B

2. Circle the circuit that will light the bulb.



Circuit C



Circuit D

3. Which of the two bulbs will shine brighter? Color that bulb yellow.