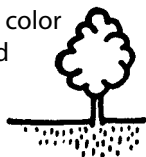


We see things with our eyes and we see their colors.

Here are some names of colors:

green	red
blue	yellow
white	gray

What is the color of grass and leaves in spring?



Grass and leaves in spring are green.

What is the color of this girl's lips?

Her lips are red.



The sky is blue.



It is blue when it is clear.  
The color of some clouds is white.  
Other clouds are gray.

The sun is yellow.

Sometimes when it is going down




or coming up it is red.





This flame is yellow.




We see things with our eyes.  
 We see the sizes and colors of things.  
 Sometimes things seem to our eyes greater or smaller than they are.  
 They are not what they seem.

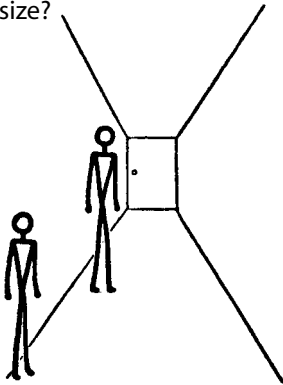
This man is tall. 

 This man is short.

This is a tall woman. 

 This is a short woman.

Here are two men.  
 Do they seem the same size?



Which of them seems taller?  
 Does the man who is farther seem taller than the man who is nearer?  
 The pictures of them are the same size.  
 The lines in the picture make the man who is nearer seem shorter.

Seeing, hearing, touch, taste, and smell are "the five senses."

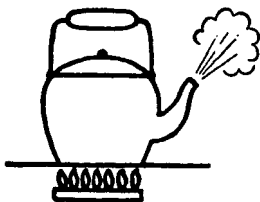
But we have more than five senses.

Which are some of the other senses?

Our sense of how warm or how cold things are is another.

Here is some cold water with ice in it.

It is very cold.



Here is some water in a kettle.

The water is boiling.

Steam is coming out of the kettle.

Here are three basins. The basin to the right has very warm water in it.

The basin to the left has cold water in it.

The basin in the middle has water which is not cold and not warm in it.



Very cold

Very warm



I put my hands in the basins at the sides. One of my hands is in the cold water; the other is in the warm water. I keep them there for a time.

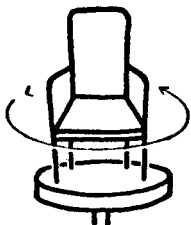
What is this?  
This water seems warm to one hand and it seems cold to the other!  
It is the same water.  
But it seems cold and warm at the same time!

Now I am putting them together into the middle basin where the water is not cold and not warm.

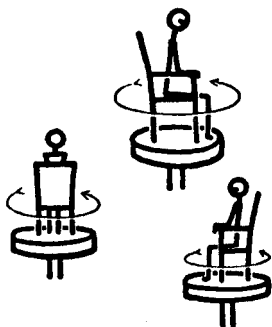


Why is this?  
It is because one hand was in warm water and the other in cold water before I put them in this middle basin.

Another sense is our sense of motion. Here is a seat which goes round and round.



A man is in the seat. He is going round and round...



At first he has a feeling that he is in motion. He has the feeling that he is going round. The seat, with the man in it, keeps on turning round at the same rate. It does not go quicker. It does not go slower.

After a time the man has a feeling that he is not in motion. But there is no change in the rate at which the seat is turning. It is going round the same number of times a minute.

After a time, if the rate of turning is the same, the man seems to himself to be at rest (not in motion).



He is like all the men and women on the earth. We are all turning round all the time with the earth, but we seem to ourselves to be at rest.



We have no feeling that we are in motion. This is because the rate of turning is the same. The man is in motion. He seems to himself to be at rest.

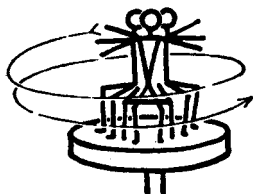
Here are three boys and a dog. Two of the boys are taking a rest. They are resting on their beds. The other boy and the dog are in motion.



Now, put a stop to the motion of the seat. When you do that the seat is at rest. The man is not in motion.



But he has a feeling that he is turning round and round. This is a picture of his feelings.



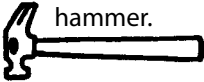
He is not turning round. But he seems to himself to be turning round. And everything round him seems to be turning round. Why is this?

It is because change in our motion is the cause of our feelings of motion. Through our sense of motion we get knowledge of changes in the rate and direction of our motion.

What is he doing?  
He is hammering.

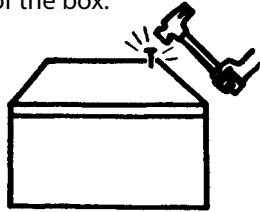


This is his  
hammer.

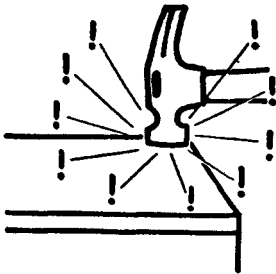


These are  
nails of  
different sizes.

He is putting the cover  
on a box.  
He is nailing down the  
cover of the box.  
The cover is on the top  
of the box.



The blows of the  
hammer make a noise.  
He is making a very  
loud noise.



Mary has her hands over  
her ears.  
"What a noise!" She is  
saying, "What a noise  
you are making."



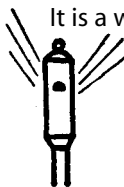
Some noises are loud.  
These are guns.



Guns make loud noises.  
Those guns make more  
noise than this gun.



What is this?



It is a whistle.

It is a steam  
whistle.

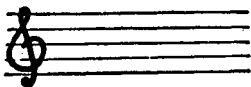
It is making a  
loud noise.

This boy has a  
pocket whistle.



He is making  
some noise  
with it but  
not much  
noise.

This is music.



This is a song.



These are  
notes.



This is a high note.



This is a low note.



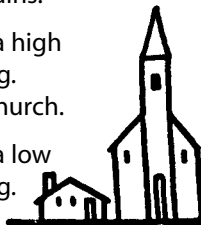
This is a very high  
mountain.



These are high  
mountains.

This is a high  
building.  
It is a church.

This is a low  
building.

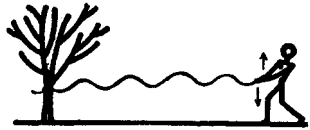


Noises and songs are sounds.  
 What are sounds?  
 They are the effects of waves in the air.



These are waves in the sea.

These are waves in a cord.  
 One end of the cord is fixed to a tree and the boy has the other end. He is shaking it up and down.



With every shake he sends a wave down the cord to the tree.

As the wave goes down the cord this part, which was up,



goes down.  
 And this part, which was down, goes up.



These are waves in  
the air.  
They come to our ears.  
They have effects in our  
ears and brains.  
Those effects are sounds.



Here is a brain.  
The part of the brain  
which does the most  
work in hearing has the  
word HEARING on it.



"The most"?  
Some things have water  
in them.

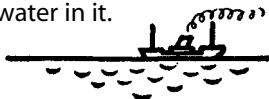
This cup has  
some water in it.



This bucket  
has more  
water in it.



The sea has  
the most  
water in it.



Some  
animals  
have brains:  
a horse has  
some brains;  
a monkey has  
more brains;  
and a person  
has the most  
brains of the  
three.



I have two dollars.  
 You have twenty dollars.  
 He has a thousand dollars.  
 He has more money than we have.  
 You have more than I have.  
 He has the most money.

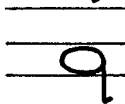
I have less money than he has.  
 I have less than you have.  
 I have the least money.

The most	\$1000	
More	\$20	less
	\$2	The least

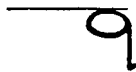
This is the highest note.



This is a lower note,



but it is higher than this note.



Which is the lowest note of the three?

Farming is an important sort of work.



Is it more important than banking?

