

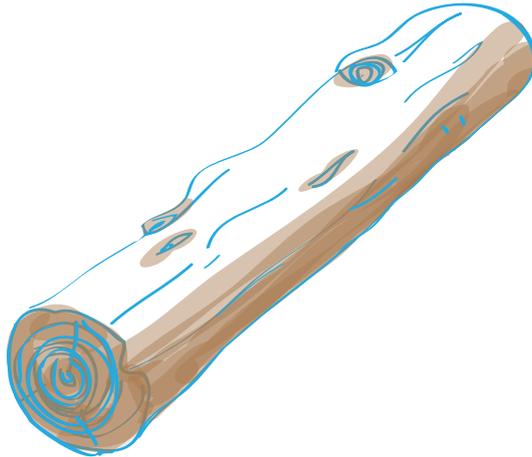
the outdoor classroom push & pull crane park

name:

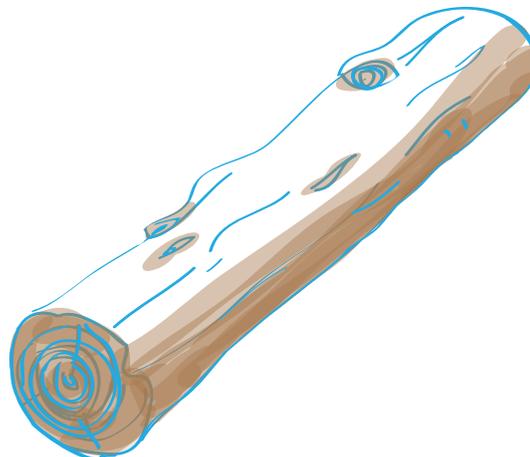
Look for a large log in the park.

Is it easier to push it or pull it?

Draw an arrow to show which way it moves when you push it.



Draw an arrow to show which way it moves when you pull it?



Look for a large tree.

What happens when you push it?

The tree stays still.	<input type="checkbox"/>
The tree moves slightly.	<input type="checkbox"/>
Nothing, I fall over.	<input type="checkbox"/>

the outdoor classroom push & pull

crane park

name:

Look for a large branch.

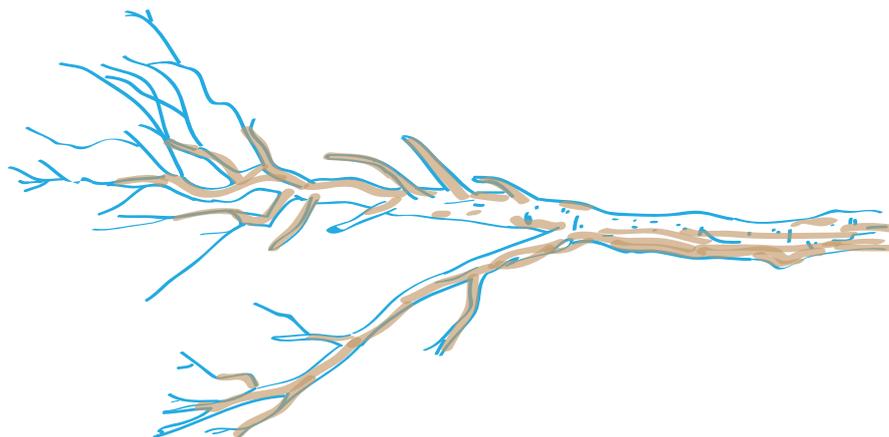
What happens when you pull it gently?

The branch stays still.	
The branch moves slightly.	
Nothing.	

How many seconds until it stops moving?

gentle pull _____ seconds	hard pull _____ seconds
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Draw arrows to show which way the branch moves.



Talk about why the branch moves but the tree does not.

the outdoor classroom push & pull mereway and kneller

name:

Look at the play equipment.
Draw an arrow in the box to show which way it moves.



push

pull



push

pull

the outdoor classroom push & pull mereway and kneller

name:



push

pull

Look for more equipment in the play park that you can push or pull.

Draw a picture of some equipment.

Which way does it move when you push or pull it?

push

pull

the outdoor classroom push & pull mereway and kneller

name:



Push the swing.

How many seconds before
it comes back?

gentle push

_____seconds

hard push

_____seconds

Does the swing go higher if you push it gently or hard?

Look at the different equipment around you.
Does it go up and down or side to side?

Design you own equipment.
Show the direction of movement of the equipment.

the outdoor classroom

forces and movement - additional activities for small groups

mereway and kneller

name:

Curriculum focus:
Science

Keywords:
Forces, gravity, direction of movement, play, friction

Resources required for this activity:
Selected objects e.g a stick, a hat or glove, a ball and a stone.

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1. Use one of the slides in the playground and discuss why it is more difficult to climb up the slide than slide down.
Why is this?
 2. Try going down the slide in different ways e.g. on your tummy etc.
Discuss what the direction of movement is.
Why is this?
Is it always the same?
Could you alter the direction of movement?
 3. Using a variety of objects observe which objects go down the slide fast and which objects travel more slowly. Selected objects could include a stick, a hat or glove, a ball, and a stone.
 4. Discuss why you think this is.
 5. Count the time taken in seconds.
Order the objects into the fastest and slowest.
Compare this time with the time it takes a child to come down the slide?
 6. Is it possible to alter the time it takes to come down the slide?
Or climb up the slide?
What is happening?
 7. Discuss why the slide is shiny.
What would happen if the surface was rough?
 8. Try rolling some objects down a grass slope.
What happens?
Why is this different to the slide?