

Simple Machines

ELA

Simple machines are all around us, and easy to find in our homes. What is a simple machine? Watch this short video and discuss it with your child.



<https://video.link/w/48B9b>

Ask children to build their name using sticks, blocks, or any kind materials you have at home. Can they name each letter? Can they build your name?

Have your child pick out 2 to 5 toys to talk about. Which ones have simple machines on them such as screws, or wheels? Use the toys your child found. What letter does each toy start with? Clap the syllables while saying the name of the toys.

Watch this short video and discuss it with your child. What can an inclined plane be used for? Find objects and make an inclined plane.



<https://video.link/w/v9C9b>

Simple Machines Read aloud



<https://video.link/w/FfD9b>

Six Simple Machines Rap- Jack Hartman

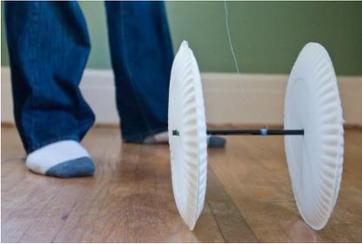


<https://video.link/w/xjD9b>

My Neighbors and their Simple Machines



<https://video.link/w/yoD9b>

Math	
	Take your child on a walk around the neighborhood or house and see all the simple machines you can find. Count what you see.
	Using the toys your child collected count how many simple machines are on them. Find shapes on the toys. How many shapes did you find?
	<p>Find materials around the house to make an inclined plane with. Measure the plane by using blocks, bobby pins, or any small objects. "The inclined plane is 26 bobby pins long!"</p> <p>STEM: Build a compound machine</p> <p style="text-align: center;">STEM: Big Wheels</p> <p>Glue two paper plates together so that the two tops of the plates are facing each other. Do this for two sets of plates.</p> <p>Take a pencil and stick it through centers of both sets of plates. Your project should look like two large wheels with the pencil serving as an axle.</p> <p>Wrap a piece of string around the pencil but leave enough thread so you can grip the string.</p> <p>Pull the string to unravel the thread from around the pencil. Your pencil will begin to turn which will cause the plates to turn, moving your machine forward. The plates and pencil act as a wheel and axle while the string and pencil act as a pulley, making a compound machine.</p> 
	As you and your child explore the house, tally how many screws need a flat head screwdriver and how many need a Philips screwdriver.

Art/Sensory	
	<p>Mix food color, cornstarch and water together to make sidewalk paint.</p>  <p>https://tinyurl.com/y7cpd9h5</p>
	<p>Watch the video and have your child draw a house.</p>  <p>https://video.link/w/L3C9b</p>
	<p>Practice with scissors. Have child cut out the pictures of simple machines and make a collage.</p>
	<p>Watch the video and have your child draw a car. The wheels and axel is part of a simple machine.</p>  <p>https://video.link/w/jXC9b</p>
Gross/Fine Motor	
	<p>Have your child draw a picture of a simple machine they saw and write or talk about what it does.</p>
	<p>Sing and move to wheels on the bus while rolling like wheel, and moving to the song.</p>
	<p>Have your child draw a picture of one of the toys they picked. Have your child write or tell you why they chose that toy to write about. Sing and move to wheels on the bus while rolling like wheel, and moving to the song.</p>

	Have your child draw a picture of the inclined plane they built and write or talk about what they used it for (See Math for inclined plane).
	Using a screwdriver have your child screw in and out screws from things like toys, or old items you find around the house that have screws. Find jars for your child to screw on the lids to.
Dinner	
	What is a Simple Machine? Talk with your family and come up with ideas.
	Talk about simple machines at the dinner table. What simple machines does everyone know about and use?
	Talk about simple machines on toys at the dinner table. How did the toys need simple machines to work?
	Talk about simple machines on toys at the dinner table. How did you make an inclined plane?
	Explore your house looking for screws. Talk about how screws hold things together. What is a screwdriver? Look for screws that need a Philips head and a flat head driver. How do screws hold things together? What else screws on or into things?
	What did you learn about simple machines? Do you think you can use what you learned when you play at home?