

Simple Machines

Chants

Simple Machine, Yes Ma'am

Is this a simple machine? Yes, ma'am.
Is this a simple machine? Yes, ma'am.
How do you know? It's a **lever**.
How do you know? It lifts or moves loads.
Give me some examples. Shovels, nutcracker, or a seesaw.

Is this a simple machine? Yes, ma'am.
Is this a simple machine? Yes, ma'am.
How do you know? It's an **inclined plane**.
How do you know? It's a sloping surface.
Give me some examples. Slides, stairs, or a ramp.

Is this a simple machine? Yes, ma'am.
Is this a simple machine? Yes, ma'am.
How do you know? It's a **wheel and axel**.
How do you know? The wheel and axel turn together.
Give me some examples. Cars, wagons, or a pencil sharpener

Is this a simple machine? Yes, ma'am.
Is this a simple machine? Yes, ma'am.
How do you know? It's a **screw**.
How do you know? It holds things together.
Give me some examples. Jar lids, screws, or bolts.

Is this a simple machine? Yes, ma'am.
Is this a simple machine? Yes, ma'am.
How do you know? It's a **pulley system**.
How do you know? It moves things up or down
Give me some examples. Flag poles, or a curtain rod

Is this a simple machine? Yes, ma'am.
Is this a simple machine? Yes, ma'am.
How do you know? It's a **wedge**.
How do you know? It cuts or spreads an object apart.
Give me some examples. Knife, axe, or a boat's bow.

By Judy Barden

Yes Ma'am

Is a pull a force? Yes Ma'am.
Is a push a force? Yes Ma'am.
What is a force? A push or a pull.
What does it do? It makes something move.

Is a gravity a force? Yes Ma'am.
Is a gravity a force? Yes Ma'am.
What is gravity? A pull to the Earth.
What does it do? It gives objects weight.

Is friction a force? Yes Ma'am.
Is friction a force? Yes Ma'am.
What is friction? Objects rubbing.
What does it do? It slows objects down.

Is magnetism a force? Yes Ma'am.
Is magnetism a force? Yes Ma'am.
What is magnetism? An invisible force.
What does it do? It attracts or repels.

Do you know about forces? Yes Ma'am.
Do you know about forces? Yes Ma'am.
What do you know? (A student answers)
What do you know? (A student answers)

--By Laurie Kohls

Simple Machines Here, Simple Machines There

Simple machines here, simple machines there,
Simple machines, simple machines, everywhere.

Helpful machines lift,
Reliable machines pull,
Handy machines push,
And resourceful machines rotate.

Simple machines in the toolbox,
Simple machines around the kitchen,
Simple machines on the work bench,
And simple machines under the sink.

Simple machines here, simple machines there,
Simple machines, simple machines, everywhere.

By Judy Barden

SIMPLE MACHINES

(Sung to the tune of "Oh My Darling Clementine")

Chorus: Simple machines are all around us,
 And they help to get work done.
 Reducing the force to lift and move things,
 Let's sing a verse about each one.

Had a lever, with a fulcrum,
And I pushed down on one end.
Dug some dirt up with my shovel,
Rode a seesaw with a friend.

Chorus

Had a pulley, with a grooved wheel,
And a rope went round and round.
Lifted cars up on a tow truck,
Pulled a flag up from the ground.

Chorus

Had a ramp that slanted upward,
And called it an incline plane.
Rode an escalator to the top floor,
Rode a slide with my friend Jane.

Chorus

Had a round wheel with an axle,
Through the center of it all.
Pulled a wagon, stuck a pencil
Into the sharpener on the wall.

Chorus

Had a gear with lots of teeth,
Joined it to another one.
Turned a windmill, wound a clock,
Rode my bike, now that was fun.

Chorus: Simple machines are all around us,
 And they help to get work done.
 Reducing the force to lift and move things,
 We've sung a verse about each one.

—By Laurie Kohls

Magnet Cadence

Magnets create an invisible force,
A force means push or pull, of course.
To make a magnet three minerals will do,
Nickel, iron and cobalt too!

Sound off-Magnets
Sound off-attract or repel
Sound off-one, two, three, four-- THERE'S MORE!

Pick something up and you will see,
It has to be—one of those three.
Other metals are no fun,
They won't stick, till the day is done.

Sound off-Magnets
Sound off-attract or repel
Sound off-one, two, three, four-- THERE'S MORE!

Magnets have a north and south end,
Try an experiment with a friend.
Make a compass and you will find,
It points to true north every time.

Sound off-Magnets
Sound off-attract or repel
Sound off-one, two, three, four-- THERE'S MORE!

Everyone knows that opposites attract,
North and south create a pull attack!
But try same ends and you will see,
They repel and push for me.

Sound off-Magnets
Sound off-attract or repel
Sound off-one, two, three, four-- THERE'S MORE!

Magnetism is all around
The earth's a giant magnet we have found.
Melted minerals are at its core,
Iron and nickel make it one for sure (shore)!

Sound off-Magnets
Sound off-attract or repel
Sound off-one, two, three, four-- THERE'S MORE!

The spin of the Earth makes electrons flow,
In big loops around they go.
This magnetic field surrounds the globe,
North to South Pole I've been told.

Sound off-Magnets
Sound off-attract or repel
Sound off-one, two, three, four-- NO MORE!

--By Laurie Kohls