

Name _____

Date _____



Simple Machines

"With Few or No Moving Parts, You Can't Lose!"

I'm going to need some help with all these chores and tasks I have to do.

Wonder what I can use...

When you have a job that's too tough to manage,

Simple machines give you _____

They spread your work over a greater distance,

Which saves you the effort, yes yes, now for instance,

You have to get boxes into a van,

But they're so heavy that you don't think you can.

You could use an _____ or a ramp,

Just slide 'em on up, and you'll feel like a champ.

Though the work stays the same, of course,

Since you increased the distance, you used less force.

Now, do you need to chop down a tree?

You could use an ax, that's a type of _____, see?

It looks kind of like two ramps put together,

And wedges can be used to split, chop or sever.

And what kind of job would call for a _____?

It holds things together and can raise or lower 'em, too.

It's a cylinder, with an incline plane wrapped around it,

You can find them everywhere, so don't be astounded.

Think of the shape of your cookie jar lid,

Or that light bulb you screw into your fridge!

If you've got work to do, you know what you need?

You need a (what) simple (what, what) simple machine!

Ramps, wedges, levers, screws,

With few or no moving parts, you can't lose!

If you need to do _____ with less effort or _____,

You need a (what) simple (what) simple machine of course!

Wheels and axles or pulleys

Make it easy to get the job done fully.

And if you're ever using a _____,

Well, that's just a kind of stick that's real clever.

It moves back and forth, or pivots,

At a point called a fulcrum so you can give it

A little less force to lower or raise.

Think about the seesaw where y'all get to play!

Aye - and here's one we all know,

That's a _____, for real, you know how it rolls.

It's connected to an object by an _____,

That helps it move things around the ground without a hassle.

Like a suitcase or wheels on the bus,

But there's another simple machine we must discuss:

A _____! Which has a wheel with a chain or a rope,

And one part is attached to the load.

When you pull on one side of the pulley, it turns the wheel,

And the load moves, yup, that's pretty much the deal.

See the direction of the motion is changed,

So you can work with gravity and your body weight

To lift something up and give you control,

Like a clothesline, a cable car or a flag pole.

HOOK

Yeah! Thanks to all those simple machines, all that work was a breeze!

But what about when you put two simple machines together?

Then you get a compound machine, like all of these right here.