



TEACHER GUIDE

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6 BONUS Activity Pages! Additional worksheets for your students

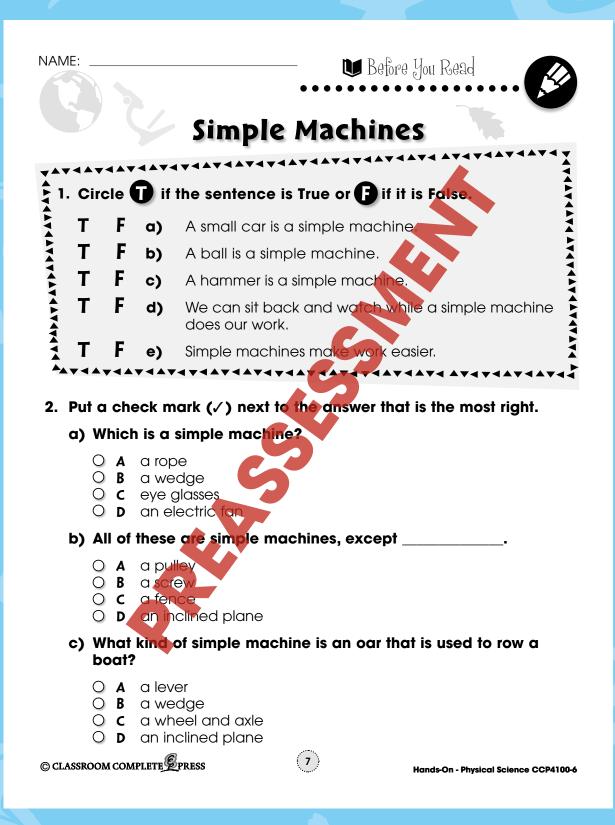
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- Enter item CC4100
- Enter pass code CC4100D







Hands-On - Physical Science CCP4100-6





The crane uses a pulley to Sometimes putting together two or more

pound a nail instead of pulling one out

You swing the hammer with a big force,

push a nail into wood with your thumb,

could you? Baseball bats work the same

way. We put a lot of force on one end so

and the hammerhead hits the nail head. It

drives the nail in because we have made the hammerhead go very fast. You couldn't

simple machines makes a new machine. These new machines are called compound machines. One example is an axe. The handle is a lever, and the head is a wedge. Another is a can opener. We turn the wheel of a wheel and axle with our fingers while a wedge cuts through the top of the can.

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lift heavy things.



NAME: After You Read 🥏 **Simple Machines** 3. Answer the questions in full sentences. a) Explain why a wedge is a kind of inclined plan b) Pick a simple machine. Explain its main advantage and its main



- F Simple machines can increase force. a)
 - The head of an axe is a wedge.
 - An inclined plane is two wedges side by side.
 - When we pull a nail from a board with a hammer, we are using a pulley.
 - A wheel and axle can also be seen as a kind of e) lever.

Extension & Application

disadvantage.

4. Use the graphic organizer on r ge 12 to finish this activity. Draw each of the simple machines. The drawing can be very simple. For each simple machine, show where you would push or pull when you use it. Draw an arrow pointing to that spot and the letter F, like this: F ----->.

Then, get into groups and experiment with each simple machine. Make a compound machine. Use at least two simple machines.

How does your machine work? How does it help you?

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b)

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Air is Something. (It is not Nothing.)

We walk into an empty room. We say that there is nothing in the room. This is not true. The room is filled with air. Air is something. It is matter because it has mass and takes up space. In this activity, we will see that air takes up space and that it can flow like water.

This is what you will need:

- a plastic spring water bottle (It should be very lig e to bend easily.)
- a sink with a hot water tap
- a refrigerator

This is what you do:

1. Empty as much of the water out of the bottle as you can. (Now it is filled with just air.)

2. Fill the sink with hot water from the tap. It should be just a little deeper than the height of the bottle.

3. Take the top off the bottle and hold it in the hot water. Don't let any water get inside.

While the bottle is still in the hot water put the cap on tightly.
Put the bottle in the freezer. Leave it there for about 15 minutes.

6. Take the bottle cut and look for any changes in its shape.7. Take the cap off. Make the bottle the shape it was before you put it in the freezer.

8. Put the bottle back in the freezer with the cap off.

9. After 15 minutes, take the bothe out and quickly put the cap on. 10. Take the cap off. Right away pretend you are pouring water from it onto your hand. 11. Notice what you feel

Cold air takes up less space than hot air. How does this explain what you saw in step 6? Cold air is heavier than hot air. How does this explain what you felt in step 11?

(18)

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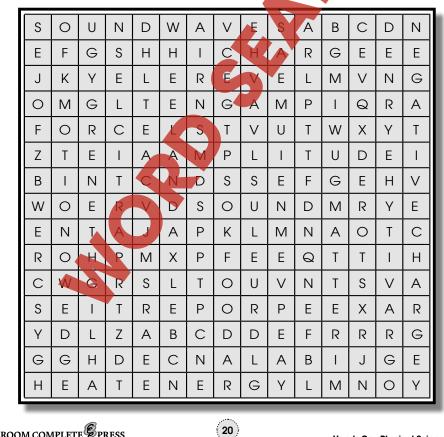
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After You Read 🥊 NAME:

Word Search

Find all of the words in the Word Search. Words are written across, up, down, on an angle, and some are even written backwards.

	amplitude	heat energy	negative charge	stored
	balanced	lever	particles	Vapor
	charge	light energy	positive	wedge
	energy	magnet	properties	wheel and axle
	food	mass	screw	
-	force	matter	sound	
	gravity	motion	sound waves	
:				



Coal Formation Timeline

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wavelength means. Explain what amplitude means.

