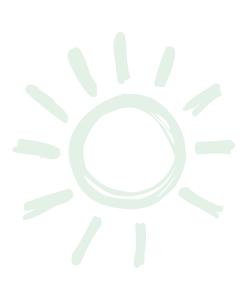


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## **STUDENT HANDOUTS**

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- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4100
- Enter pass code CC4100D



NAME:	Before You Read	Reading Passage NAME:	
	•••••••••••••••••••••••••••••••••••••••		
Ma	itter and Materials	Matter and Materials	
1. Put a check mark (	(√) next to the answer that is the most right.	atter is easy to understand. Matter	2,
	an touch are made of	is just <i>stuff</i> . Pretty much everything	
O A energy		is matter, except energy. We say all matter has <b>mass</b> and takes up space.	
O B force		Mass is a measure of how much matter is in a thing. Mass is not the same as weight,	
O <b>c</b> matter O <b>D</b> solids		but it is what gives a thing weight. Water,	
b) How many diffe	erent forms can water have?	rocks, air, and even you are all made of matter.	quid
O A one		Each kind of matter has its own special	3
OB two OC three		properties. Properties are how we tell	3
O <b>D</b> four		what something is like. To find out what solid kind of matter a thing is made of, we	}
c) These can all be	e properties of matter, except	can look at its properties. Is it hard? What color is it? Does it burn? Does it float? For would look like if you	
<ul><li>A is blue</li><li>B is hard</li></ul>		example, rocks are hard, water flows, and see them.	
O <b>c</b> can burn		paper burns.	a or otal
O <b>D</b> has energ	gy	Crystals are solid materials with Interesting properties. We can tell a by its color, shape, and hardness. Look at the pictures of three differences.	
<b>~</b> ^~ <b>~</b> ^~ <b>~</b> ~ <b>~</b> ~ <b>~</b>	AV4AV4V4AV4AV4AV4AV4AV4AV4AV4	crystals. How would you describe them?	
2. Circle if the	sentence is True or 🕞 if it is False.	Quartz	
<b>A</b>	wood burns, it turns into ashes and smoke.	Amethyst	
Cooli	g the ashes and smoke turn them back into	Diamond	
T F Matte	er is made of little things too small to see.		
À	ng ice turns it into liquid water.	Matter is made of little <b>particles</b> (bits of matter) much too small to is the particles that give a thing its properties. Properties depend or	
<u>*</u>	lid things have the same properties.	things:  • Which kind of particles a thing is made of.	
<b>A</b>		How tightly they are packed together.	
		Whether the particles are stuck in fixed places or can move around	nd.
© CLASSROOM COMPLETE <b>E</b> PRESS	S Hands-On - Physical Science CCP4100-5	© CLASSROOM COMPLETE PRESS 8 Hands-On - Physical Scie	ence CCP4100-5
After You	u Read 🔷 NAME:	NAME: After You Read	
Ma	ntter and Materials	Matter and Materials	
	·····	3. Answer the questions in full sentences.	
1. Use the words below	ow to finish each sentence.		
solid	gas mass liquid particles	a) Explain what matter is. Explain what mass is	
( a) Water can be a	, a or a gas.		
(	and takes up space.	<b>b)</b> Tell two ways that burning wood is different from boiling wo	 nter
c) All matter is made		2) foll two ways man burning wood looking the months in the same of the same o	11011
d) Water vapor is a			
2 Put a check mark (	(√) next to the answer that is the most right.	Eutopsion 9 Application	
a) Water flows bed		Extension & Application	
O <b>A</b> are wet		4. Look around your house. Find a solid. Find a liquid. Find a Tell what each thing is like by its properties.	gas.
O B are small O C cannot re			
O <b>D</b> can move		a) What are the properties of the solid?	
b) Which is always	s a sign that a new material has been formed?		
O A A flame is			
O B A gas is g O C A liquid ga		<b>b)</b> What are the properties of the liquid?	
	ecomes liquid.		
c) All these chang	es can go back the way they were, except		
O A when a so	olid melts	c) What are the properties of the gas?	
O <b>B</b> when a lice	quid boils		
O <b>C</b> when a so <b>D</b> when a lice			

Hands-On - Physical Science CCP4100-5

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### How the Sun Warms the Earth

When sunlight strikes the surface of the Earth, some of the energy is changed into heat energy. Light energy goes through Earth's air easily. Heat energy does not go through air as easily. Some of the heat is trapped here. This makes the Earth warmer. This is called the "greenhouse effect." Have you been to a greenhouse? It is a glass house. It works like Earth's air. Light comes in through the windows and warms the inside. The windows then trap the heat. Plants can grow inside the greenhouse that could not grow outside in the winter.

You can make a little greenhouse. This is what you will need:

- a large glass bowl
- something black, like black paper or cloth
- two thermometers (Thermometers measure temperature. Temperature measures how hot something is.)

This is what you do:

- 1. Go outside on a sunny day
- 2. Put the black paper or cloth down and cover it with the bowl.
- 3. Put one thermometer inside the bowl and one outside.
- **4.** Read the temperature on both thermometers and write down the readings.
- **5.** Come back in an hour and read the thermometers again. Write the readings down.



This is a greenhouse you would see at a store.

What did the temperatures you read tell you? Was it hotter inside the bowl than outside? Explain.

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NAME:

## Comprehension Quiz

## Part A

Circle **(1)** if the sentence is TRUE or **(3)** if it is FALSE. **T F 1)** Gravity only pulls on things sitting **(a)** the ground.

**T F** 2) If something is moving in a straight line without changing speed, the forces on it are balanced.

**T F 3)** Light is a kind of energy.

**F** 4) We cannot see sound waves.

T F 5) Light travels faster than sound.

T F 6) Lightning is a kind of current electricity.

T F 7) Particles in ice can change places with each other.

#### Part B

Put a check mark (/) next to the answer that is the most right.

- a) Which two simple machines could you make with just a board and a brick?
  - O A A pulley and a lever.
  - O B A lever and an inclined plane.
  - O **c** An inclined plane and a screw.
  - O **D** A screw and a wheel and axle.
- b) What do we know about the forces acting on something that is falling without changing its speed?
  - O **A** No forces are acting on it.
  - O B Only gravity is acting on it.
  - O **c** There is no force of air resistance.
  - O **D** The forces acting on it are balanced.





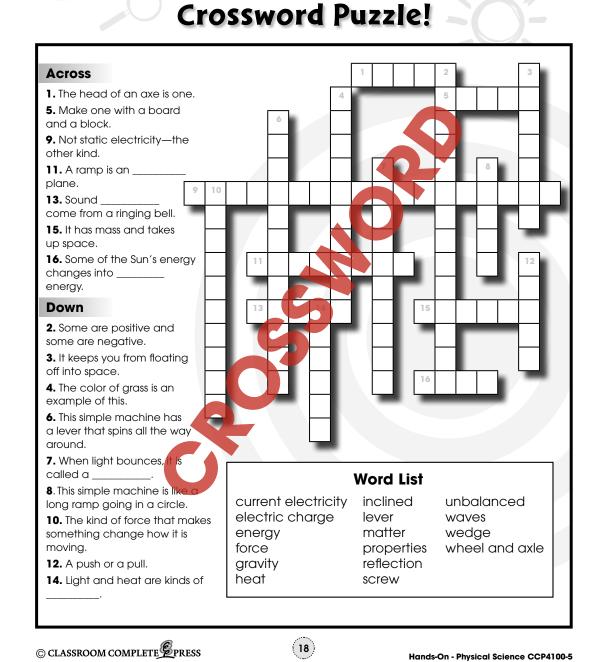
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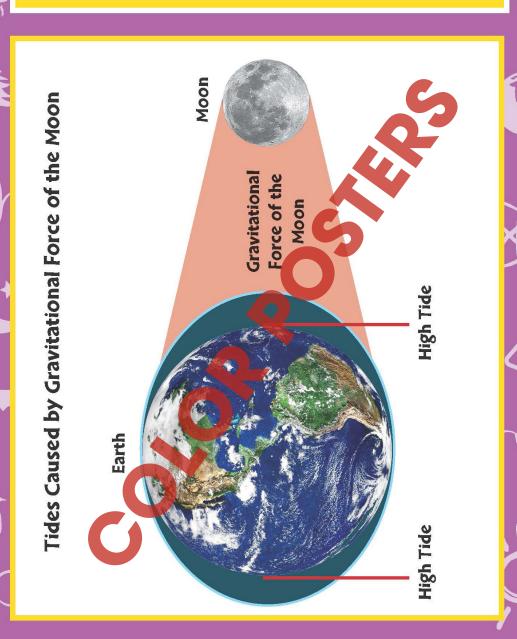
**Ø**.

After You Read 🔷

#### \_ \_



## **Gravity and Tides**





After You	Read 🖊
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NAME: \_

## Matter and Materials

1.	Use	the	words	below	to	finish	each	sentence.
	<b>U</b> 3C		<b>4401M3</b>	DCIO44	10	11111311	CUCII	3011101100.

	solid	gas	mass	liquid	particles
a) \	Water can be a		, a	C	or a gas.
<b>b)</b> /	All matter has _		and takes	up space.	
<b>c)</b> /	All matter is mad	de of	too	small to see	∋.
<b>d)</b> \	Water vapor is c	d t	'·		

- 2. Put a check mark  $(\checkmark)$  next to the answer that is the most right.
  - a) Water flows because its particles \_\_\_\_\_.
    - O **A** are wet
    - O **B** are small
    - O c cannot freeze
    - O **D** can move around

# b) Which is always a sign that a new material has been formed?

O A A flame is seen.

- OB A gas is given off.
- O **c** A liquid gets hard.
- O **D** A solid becomes liquid.
- c) All these changes can go back the way they were, except
  - O A when a solid melts
  - O **B** when a liquid boils
  - O **c** when a solid burns
  - O **D** when a liquid freezes





Hands-On - Physical Science CCP4100-5

a) Matter is anything that has mass and takes up space. Mass is how much matter is: in something.

**b)** Water vapor can change back to liquid water. Smoke and ashes can't change back to wood. Burning wood makes something new. Boiling water doesn't.

a) 🕡 D

a) solid, liquid

**b)** mass

d) gas

c) particles

Answers will vary, but may include:

Clear, can change shape, wet, flows.

c) Gas: No color, flows, can't see it.



c) ① C

ER KEY

 $\langle 11 \rangle$ 



