

# Solids

## True or False.

1. A solid is the only form of matter.
2. Every solid has mass.
3. A solid takes up a definite amount of space.
4. A mountain is an example of a solid.
5. A piece of dust is an example of a solid.
6. A mountain is an example of a solid.
7. Every solid of the same size has the same mass.

## Matching.

	1. energy	a. the states of matter
	2. hardness	b. has mass and takes up space
	3. properties	c. has no mass and takes up no space
	4. matter	d. a property of solids
	5. solid, liquid, gas, plasma	e. help to identify matter

## Complete the sentences.

1. A very small solid \_\_\_\_\_ have mass. *does, does not*
2. A piece of dust \_\_\_\_\_ take up space. *does, does not*

3. A solid \_\_\_\_\_ take on the shape of its container.  
*does, does not*
4. A solid \_\_\_\_\_ spread to fill its container. *does, does not*
5. Solids come in different \_\_\_\_\_. *states, hardnesses*

**COMPLETE THE CHART by putting a YES or NO in the space provided**

	HAVE MASS	TAKE UP SPACE	TAKE UP A DEFINITE AMOUNT OF SPACE	HAVE DEFINITE SHAPES	SPREAD OUTWARD TO FILL THEIR CONTAINERS	SMALL AMOUNTS FILL LARGE CONTAINERS
<i>SOLIDS</i>						

**EXTRA CREDIT PART I**

Unscramble.

1. DOLSI \_\_\_\_\_
2. PHEAS \_\_\_\_\_
3. RATTEM \_\_\_\_\_
4. MASALP \_\_\_\_\_
5. SMAS \_\_\_\_\_

**EXTRA CREDIT PART 2**

*When sand is placed in a container it looks as if it takes on the exact shape of the container. It really does not. How can you show that it does not?*

# LIQUIDS

1. A liquid is matter because it	a. is hard c. has mass and takes up space	b. has its own shape d. living things could not survive without it.
2. The most common liquid on Earth is	a. mercury c. chicken soup	b. water d. oxygen
3. All liquids	a. are clear c. have odors	b. flow d. are flat on top
4. A liquid has a definite shape only when it is	a. water c. being poured	b. in a container d. heavier than water
5. 'Definite' means	a. definition c. exact	b. fine d. changing

## TRUE OR FALSE.

1. A liquid has mass
2. The top of a liquid is always flat.
3. A liquid has a shape of its own.
4. All liquids have the same mass.
5. Liquids come in many colors
6. A liquid takes up a definite amount of space.
7. A liquid can be made to have any shape.
8. Liquids and solids share ALL of the same properties?

**COMPLETE THE CHART by putting a YES or NO in the space provided.**

	HAVE MASS	TAKE UP SPACE	TAKE UP A DEFINITE AMOUNT OF SPACE	HAVE DEFINITE SHAPES	SPREADS OUT TO TAKE SHAPE OF ITS CONTAINER	SMALL AMOUNTS FILL LARGE CONTAINER
<i><b>SOLIDS</b></i>						
<i><b>LIQUIDS</b></i>						

**USE THE CHART TO ANSWER THESE QUESTIONS. Write S for **SOLID**, and L for **LIQUID**.**

- Which states of matter have mass? \_\_\_\_\_ S, L \_\_\_\_\_
- Which states of matter take up space? \_\_\_\_\_.
- Which of the states of matter take up a definite amount of space?  
\_\_\_\_\_
- Which state of matter has a definite shape? \_\_\_\_\_.
- Which state of matter has no definite shape? \_\_\_\_\_.
- Which state of matter take on the shape of its container? \_\_\_\_\_.
- Which does not take on the shape of its container? \_\_\_\_\_.
- Which states of matter do not always fill a container? \_\_\_\_\_.

# GASES

## Fill in the Blanks

word bank:

SOLIDS

LIQUIDS

GASES

PLASMAS

MATTER

1. \_\_\_\_\_ have a definite shape.
2. \_\_\_\_\_ and \_\_\_\_\_ take up a definite amount of space.
3. \_\_\_\_\_ and \_\_\_\_\_ take the shape of their container.
4. \_\_\_\_\_ are very rare on Earth.
5. Some \_\_\_\_\_ are invisible.
6. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ are the four states of matter.
7. Water and mercury are \_\_\_\_\_.
8. Oxygen and Nitrogen are \_\_\_\_\_.
9. Rocks and metals are \_\_\_\_\_.
10. \_\_\_\_\_ will spread out to fill a large container.

**TRUE OR FALSE.**

1. \_\_\_\_\_ Oxygen is a gas.
2. \_\_\_\_\_ All gases are invisible.
3. \_\_\_\_\_ All gases have mass.
4. \_\_\_\_\_ A gas has a definite shape.
5. \_\_\_\_\_ A gas takes up a definite amount of space.
6. \_\_\_\_\_ A gas will fill only part of a container.
7. \_\_\_\_\_ Gases spread out only from side to side.
8. \_\_\_\_\_ Every gas has an odor.
9. \_\_\_\_\_ Animals need oxygen.
10. \_\_\_\_\_ Plants need oxygen.

**Complete the Chart by answering YES or NO in the spaces provided.**

	Have Mass	Take Up Space	Take Up A Definite Amount of Space	Have Definite Shape	Spread out to Take Shape of Its Container	Small Amounts Fill Large Container	Can be invisible
SOLIDS							
LIQUIDS							
GASES							

**EXTRA CREDIT.**

Water is a liquid. When it boils it turns into steam. When it freezes it turns into ice. Using the properties in the chart above, write down what ice and steam are and why.