

Science

Grade 3

Slime science: solid, liquid or both?

Make cornstarch slime, measure the ingredients and observe how it behaves.



I can describe solids and liquids and record what I observe.

1



Solid or liquid?

Write each word in the right column.

ice cube

juice

rock

milk

crayon

water

spoon

honey

Solid**Liquid**

2



Make cornstarch slime

Ask an adult to help. Write 1 to 5 in the boxes.

☐

Mix it with your hands until it is smooth.

☐

Pour 2 cups of cornstarch into a bowl.

☐

Wash your hands and clean up.

☐

Slowly add 1 cup of water.

☐

Squeeze it fast, then hold it still in an open hand.

3



What did you observe?

Circle the right answer.



1. When you squeeze cornstarch slime hard, it feels...

A like a solid

B like a gas

C like air

2. When you hold it still in an open hand, it...

A drips like a liquid

B turns into a gas

C gets hard as a rock

3. Which tool is best for measuring 1 cup of water?

A a measuring cup

B a ruler

C a thermometer

4



Bigger batches

1 batch uses 2 cups of cornstarch and 1 cup of water. Fill in the table.

Batches	Cornstarch (cups)	Water (cups)
1	2	1
2		
3		
5		

5 Solid and liquid facts

Circle the right answer.

1. A solid keeps its own shape.
2. A liquid takes the shape of its container.
3. Honey is a gas.
4. Melting changes a solid into a liquid.
5. A rock changes shape when you put it in a cup.
6. Water can freeze into ice.

True False

True False

True False

True False

True False

True False

6 Science words

Draw a line from each word to its meaning.

☐ melt •

☐ freeze •

☐ observe •

☐ predict •

☐ measure •

● **A.** To guess what will happen before you test.

● **B.** To change from a solid to a liquid.

● **C.** To find out how much or how big.

● **D.** To change from a liquid to a solid.

● **E.** To watch closely and notice things.

7 Slime math

1 batch uses 2 cups of cornstarch and 1 cup of water. Write the missing numbers.

1. Half a batch uses _____ cup of cornstarch.
2. 4 batches use _____ cups of water.

3. 8 cups of cornstarch make _____ batches.
4. A class makes 6 batches. They need _____ cups of cornstarch and _____ cups of water.

8



Think like a scientist

Circle the right answer.

1. You leave an ice cube in a warm room. What happens?

A It turns into a rock.

B It melts into a liquid.

C It stays the same.

2. Which one is a liquid?

A milk

B crayon

C spoon

3. Slime left in an open bowl dries out and gets hard. Why?

A It gets colder.

B The cornstarch melts.

C The water goes into the air.

4. Which question can you test with slime?

A What is my favorite color?

B Does more water make slime runnier?

C How old is my teacher?

9



Explain it

Is cornstarch slime a solid or a liquid? Use what you observed to explain.

How did it go?



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Science

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Answer key

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1



Solid or liquid?

Write each word in the right column.

ice cube

juice

rock

milk

crayon

water

spoon

honey

Solid

ice cube, rock, crayon, spoon

Liquid

juice, milk, water, honey

2



Make cornstarch slime

Ask an adult to help. Write 1 to 5 in the boxes.

3

Mix it with your hands until it is smooth.

1

Pour 2 cups of cornstarch into a bowl.

5

Wash your hands and clean up.

2

Slowly add 1 cup of water.

4

Squeeze it fast, then hold it still in an open hand.

3 What did you observe?

Circle the right answer.



1. When you squeeze cornstarch slime hard, it feels...

A like a solid

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2. When you hold it still in an open hand, it...

A drips like a liquid

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3. Which tool is best for measuring 1 cup of water?

A a measuring cup

B a ruler

C a thermometer

4 Bigger batches

1 batch uses 2 cups of cornstarch and 1 cup of water. Fill in the table.

Batches	Cornstarch (cups)	Water (cups)
1	2	1
2	4	2
3	6	3
5	10	5

5 Solid and liquid facts

Circle the right answer.

1. A solid keeps its own shape.
2. A liquid takes the shape of its container.
3. Honey is a gas.
4. Melting changes a solid into a liquid.
5. A rock changes shape when you put it in a cup.
6. Water can freeze into ice.

True

False

True

False

True

False

True

False

True

False

True

False

6 Science words

Draw a line from each word to its meaning.

B melt



D freeze



E observe



A predict



C measure



● **A.** To guess what will happen before you test.

● **B.** To change from a solid to a liquid.

● **C.** To find out how much or how big.

● **D.** To change from a liquid to a solid.

● **E.** To watch closely and notice things.

7 Slime math

1 batch uses 2 cups of cornstarch and 1 cup of water. Write the missing numbers.

1. Half a batch uses 1 cup of cornstarch.
2. 4 batches use 4 cups of water.

3. 8 cups of cornstarch make 4 batches.
4. A class makes 6 batches. They need 12 cups of cornstarch and 6 cups of water.

8 Think like a scientist

Circle the right answer.

1. You leave an ice cube in a warm room. What happens?

☐ A It turns into a rock. ☒ B It melts into a liquid. ☐ C It stays the same.

2. Which one is a liquid?

☒ A milk ☐ B crayon ☐ C spoon

3. Slime left in an open bowl dries out and gets hard. Why?

☐ A It gets colder. ☐ B The cornstarch melts. ☒ C The water goes into the air.

4. Which question can you test with slime?

☐ A What is my favorite color? ☒ B Does more water make slime runnier?

☐ C How old is my teacher?

9 Explain it

Is cornstarch slime a solid or a liquid? Use what you observed to explain.

It acts like both. When you squeeze or hit it fast, it feels hard like a solid. When you let it rest, it flows and drips like a liquid.

How did it go?



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