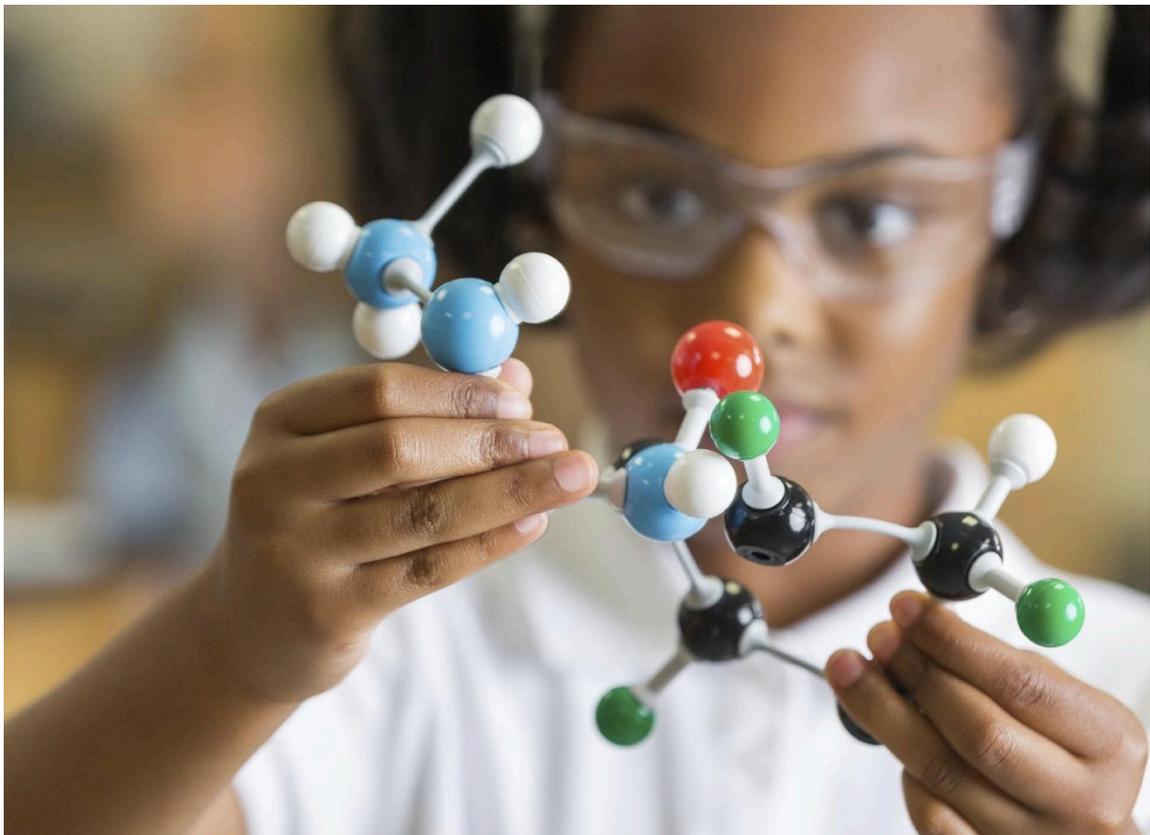


Oak Park School District
Fall 2022

Hoffman Planetarium
2nd Grade Activity Guide



What Are Solids?

1. Read about **solids**.

Solids are another type of matter. Solids are found outside.



We have solids in our home.

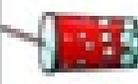


We even wear solids!

2. Circle the solids.



List each as a solid, liquid or gas.

The States of Matter Guess Who?				
 pencil	 rain drops	 perfume	 soda pop	 oxygen
 sand	 steam	 helicopter	 air in a fire	 breeze
 lettuce	 ice cube	 basketball	 feather	 orange juice
 bridge	 carbon dioxide	 flavored water	 sneaker	 helium
 motorcycle	 paint	 wind	 snow	 hot cocoa

Cut out the symbols below and place them in the correct spot on the chart. Make sure to draw an example of each.

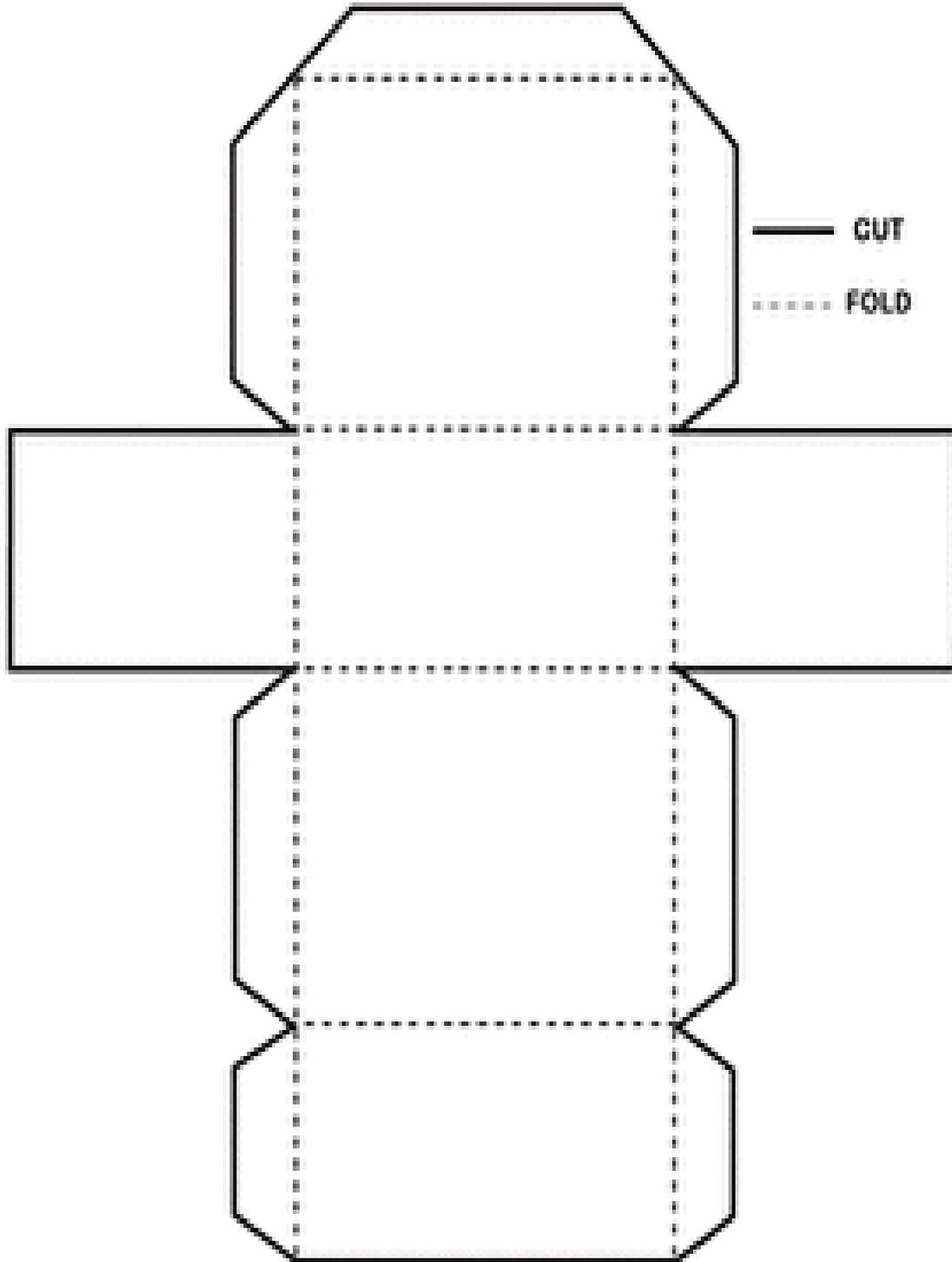
Solid, liquid, or gas?

Look at the objects below. Are they solids, liquids, or gases?
Write the objects in the correct column.

 glasses	 bowl	 air in a balloon	 tea
 ball	 wool	 milkshake	 steam
 hot air	 juice	 water	 wood

Solid	Liquid	Gas

RECTANGULAR PRISM



States of Matter

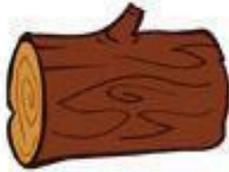
Draw a line to match the objects and their correct state of matter.



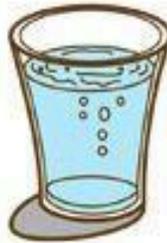
Air (inside the balloon)



Paint (inside the can)



Log



Vaper



Milk (inside the carton)

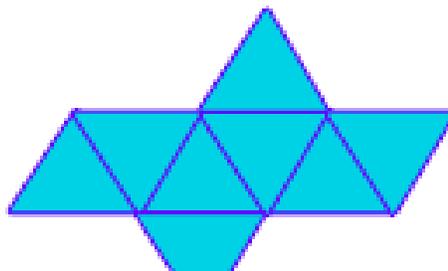
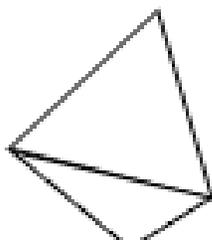
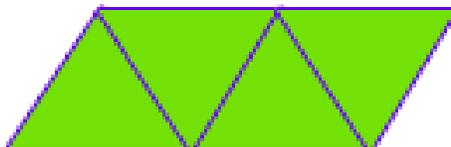
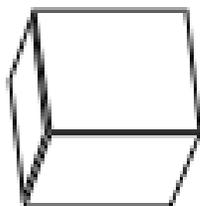
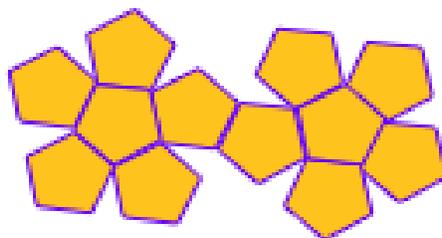
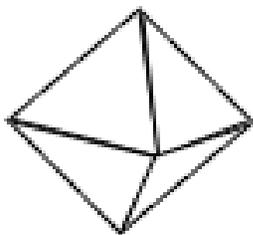
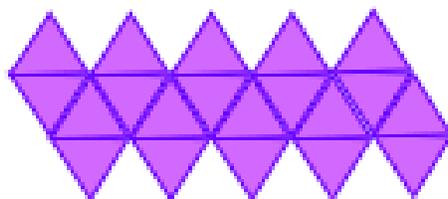
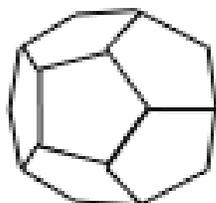
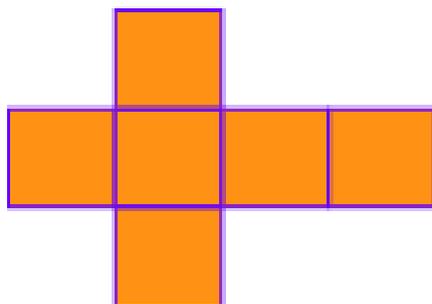
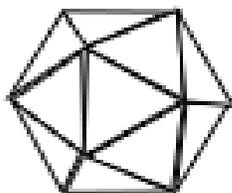


Icicle

Determine which of the following are mixtures and which are solutions. Write the correct work under each picture.



You can cut the shapes out!



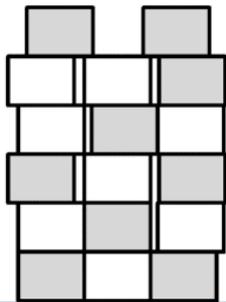
Name _____

Date _____

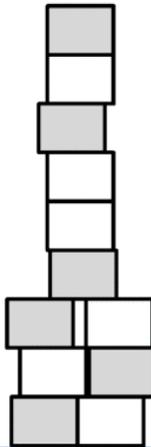


PROBLEM SOLVING - SALAMANDER TOWERS

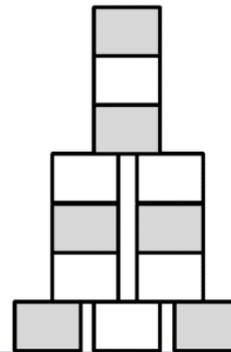
Captain Salamander, Flame and Tyger all build towers out of bricks. Here they are below.



Captain's tower



Flame's tower



Tyger's tower



- 1) Whose tower is the tallest? _____
- 2) How many bricks are there in Tyger's tower? ____ bricks
- 3) How many bricks are there in the Captain's tower? ____ bricks
- 4) How many bricks are there in Flame's tower? ____ bricks
- 5) How many bricks tall is the Captain's tower? ____ bricks
- 6) How many bricks taller is Flame's tower than the Captain's tower? _____ bricks

Mixtures

In a **mixture**, substances are generally just mixed and are not completely dissolved.

Solutions

In a **solution**, substances are dissolved completely and they cannot be filtered out.

Mixture Or Solution

Observe each picture and infer if it is a solution or a mixture. Explain why.



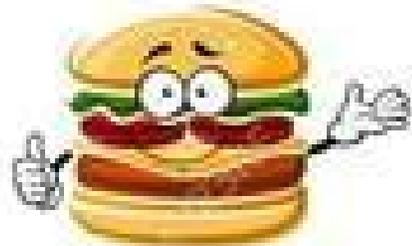
PIZZA



COFFEE



MILKSHAKE



BURGER

Describing materials

Look at the pictures below. Describe them with two words from the word bank at the bottom of the page.

 _____ _____	 _____ _____	 _____ _____
 _____ _____	 _____ _____	 _____ _____

Word Bank			
waterproof	shiny	soft	flexible
transparent	hard	stiff	dull
strong	fragile	sharp	absorbant

Label and color each object in the solar system.

