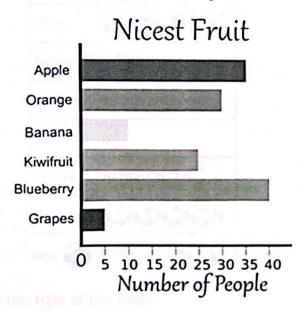
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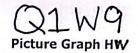
Part I: Parts of a bar graph

<u>Directions</u>: label the parts of a bar graph on the graph shown below. Be sure to use arrows to indicate what you are labeling.



#### Part II: Analyzing a bar graph.

Part II. Allaryzing a bar grapii.						
Analyze means to      This bar graph is: horizontal or	or vertical					
3) What survey question could have been asked to generate this data?						
gasters care nor That file	The Marie Court and the Park Court of the Park C					
4) What is the scale counting by?	Service of the servic					
5) How many people liked blueberry m	nore than banana?					
6) Which two fruits combined were nic	est? banana/kiwifruit or blueberry/grapes					
7) Which two fruits combined total fifte	een?and					



# TUESDAY Part I: Vocabulary

) The	lets v	ou know v	vhat each pic	ture eau	ıals (what you are
counting by).		04 141011 1	mae dadii pio	5 544	and (vinde you are
2) A	The same of the same of	dis	plays data us	ing pictu	ıres.
3) You can co	llect data to o	display in a	graph by co	nducting —	g a
l) Information	n collected in	a survey a	and then disp	ayed in	a graph is called
5) Data in a g	raph can be o	displayed _			_ or across.
s) Data in a g	raph can be o	displayed _			_ or up and dow
Part II: Ana	yzing (unde	erstandin	g) a picture	graph.	Andrew W
			oks Read		
Jasmine					
Khim					
Lester					
Maria					
	Eac	, []]	neans 2 boo	ks read	•
	books did Ja	smine and	d Khim read t	ogether	?
I. How many					

#### WEDNESDAY

Part I: Parts of a picture graph

	Soccer goals
Kiley	00000
Sebastian	<b>Q</b> {
Vanessa	8
George	€
Adrian	3000
Cecilia	000000

	13				1.			
Each	(1)	=	10 goals	Each	6	=	5 goa	Ils
	100				-			

- 1) Circle the **title** of the graph
- 2) Put a box around the key
- 3) Shade in the data
- 4) What does half of a soccer ball mean?

Part II: Analyzing (understanding) a picture graph Directions: Using the graph above, answer the following questions using true (T) or false (F).

5)	Each soccer ball picture equals one goal	
6)	Sebastian scored six goals	

- 7) Vanessa and George scored ten goals each \_\_\_\_
- 8) Cecilia scored the most goals \_\_\_\_\_
- 9) Adrian scored 35 goals
- 10) Sebastian scored ten more goals than George

THURSDAY

Part I: Creating a picture graph

Directions: Using the information from the table, create a picture graph to show the data collected. Be sure to include the following parts of a picture graph: title, labels, pictures (data), key, and categories.

Food	Votes
Pizza	1444
Burger	<i>HHT</i>
Pasta	HHT-HHT
Hot Dog	1111

\*Use a heart to show the data\*

The second secon	to be a first to the control of	
Bit and the second second		
	(D)	
	San-Y	

Each \_\_\_\_\_ means \_



Name:	Class:

## The Cold Hard Science Behind Ice Cream

By Tracy Vonder Brink 2022

Science is the study of the world around us. In this informational article, Tracy Vonder Brink explains the science of how ice cream is made. As you read, take notes on how ice cream is made.

[1] People in the United States love ice cream.
Each American eats about 20 pounds (9kg) of it every year! Even George Washington served it to his guests. Ice cream has three main ingredients: 1 Milk, cream, and sugar. How do three simple things become a tasty frozen treat?

It all starts with atoms. Atoms are the tiny building blocks that form everything around us. When two or more atoms are stuck together it is called a molecule. An object's atoms and molecules are always moving. (Atoms are much too small to see, so we don't notice the movement.) The hotter something is, the faster its molecules jiggle<sup>2</sup> around. Take water, for example. When water molecules move their fastest, they make steam. Water molecules with less energy<sup>3</sup>



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form the liquid we call water. Take away more energy, and the water molecules freeze into a solid. That's where ice cream begins.

Milk and cream both contain water. The water inside them is what freezes to make ice cream. How? Ice cream factories<sup>4</sup> put the ingredients into a big machine and surround<sup>5</sup> them with cold. The cold slows down the molecules in the mixture's water. Ice crystals<sup>6</sup> form.

- 1. parts something is made of
- 2. Jiggle (verb) to shake back and forth
- 3. power something has
- 4. Factory (noun) a building or buildings where things are made
- 5. Surround (verb) to make a circle around



Fats in the milk and cream keep the ice crystals from sticking together. The sugar in ice cream thickens some of the water to slow down the freezing process. <sup>7</sup> That's partly why it's ice cream and not an ice cube. But freezing ice cream as it sits makes large, rough ice crystals. Making smooth ice cream takes both mixing and air.

[5] An ice cream machine turns and mixes the ice cream as it freezes. Moving water doesn't have time to form large ice crystals as it freezes, so it makes small ones. Mixing also adds air. The air makes the mixture light and fluffy. Together, small ice crystals and air create smooth, creamy ice cream. (Ice cream makers add other thickeners to help the ice cream stay smooth. And of course they also add plenty of flavors.)

Ice cream doesn't refreeze well because of its ice crystals. They lose the air that was frozen into them as they melt. Unless new air is mixed in, ice cream refreezes with larger crystals. That's why the melted ice cream you put back into the freezer comes out grainy and rough.

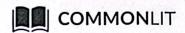
So, what's the difference between ice cream, soft serve, and frozen custard? In the United States, ice cream is required to have at least 10% milk fat. (Ice milk only has to have 2.5% milk fat. It's often sold as low-fat ice cream.) Soft serve is made with more air and less fat than regular ice cream. It's also served at a warmer temperature to keep it soft. Frozen custard has egg yolks in it as well as less air. Together they make frozen custard thicker than ice cream.

Whether you love ice cream, soft serve, or frozen custard, they all start the same way — with some yummy ingredients and a lot of science. What's your favorite kind?

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- 6. a special shape that is made when water freezes into ice
- 7. steps that make something
- 8. Fluffy (adjective) soft and light
- 9. Flavor (noun) the way something tastes
- 10. needed or must have



## **Text-Dependent Questions**

Directions: For the following questions, choose the best answer or respond in complete sentences.

- 1. Which sentence best summarizes the passage?
  - A. There are many different ways to make ice cream, but using a machine is the best way.
  - B. Ice cream has only three simple ingredients, but it takes a special process to make.
  - C. It is very difficult to get the ingredients for ice cream, and it is hard to make.
  - D. Frozen custard and soft serve are more difficult to make than ice cream.
- 2. Which detail best explains how ice cream becomes smooth?
  - A. "Milk and cream both contain water." (Paragraph 3)
  - B. "But freezing ice cream as it sits makes large, rough ice crystals." (Paragraph 4)
  - C. "An ice cream machine turns and mixes the ice cream as it freezes." (Paragraph 5)
  - D. "They lose the air that was frozen into them as they melt." (Paragraph 6)
- 3. How does paragraph 2 help readers understand the text?
  - A. It helps readers understand how ice cream can make steam.
  - B. It helps readers understand how atoms are made of molecules.
  - C. It helps readers understand how milk and cream come together to make water.
  - D. It helps readers understand how liquid ingredients in ice cream can become solid.
- 4. What is the meaning of "contain" as it is used in paragraph 3?
  - A. freeze
  - B. have
  - C. make
  - D. stir

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Hysierico!	HONDOW FIND
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my dog went to school.
Finger Spaces Capital Letters Punctuation My Best Work
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