Dear Parents/Guardians,

Our school is following guidelines provided by the State of Ohio and the Ohio Department of Education and the Governor as it relates to exercising caution in regards to the COVID-19. These agencies have advised us to create school activities for our students. You will find several activities and instructional suggestions for students to utilize during this school closure. These activities are planned within a three week time frame. Feel free to complete the activities at your own pace. Our goal is to maintain student skills that have already been taught this school year. With this practice, students will be able to return to school and pick-up where we left off.

If you have any additional questions or comments, please feel free to contact us through email or Class Dojo.

Sincerely,

Grade 4 Team

Mrs. Adair Social Studies/Science, ritt adair@tccsa.net

Mrs. Cunningham, Intervention Specialist, ritt_jcunningham@tccsa.net

Ms. Fach Intervention Specialist, ritt_afach@tccsa.net

Mrs. Milosevich Math, ritt metzger@tccsa.net

Mrs. Rahe English Language Arts/Reading, ritt_arahe@tccsa.net

Google Classroom

To join Google Classroom you do not need a chromebook. You just need a computer or laptop with internet access. Then, you may go to the Rittman Elementary website -- Student -- Google Classroom. Your child already has an email and password.

Example Student Name: Henry Spencer

Graduation Year: 2028

Email: 28hespencer@mail.rittman.k12.oh.us

Password: Your child should know their own password. If not, please email or Dojo us.

Rittman Elementary Website: http://www.rittman.k12.oh.us/es

Google Classroom: http://classroom.google.com

Grade 4 ELA - Mrs. Rahe

I will check my email, dojo, and Google Classroom periodically! See you online! :)

- Sunshine Work (following directions and review skills)
- Notice and Note Log (notice signposts on log or Google Classroom)
- Writing Typing Prompts (Google Classroom, create doc and label each date)
- Novel Study Choice Board with any book (Google Classroom, create docs or slides)
- i-READY (students have their own username and password, access lessons daily)
 - https://login.i-ready.com/
- Reading Passages
- Review vocabulary words (create pictures, sentences, etc.)
- Quizizz (no login required, student may use their own email and find own quizzes related to vocabulary)
 https://quizizz.com/
- Spelling Words (practice spelling words)
- Extension Project: Paper Bag Character Study (follow directions in the pack)
- Epic (online books)
 https://www.getepic.com/sign-in

Grade 4 ELA - Intervention Specialist - Ms. Fach

- Spiral ELA Review- review of phonics skills
- Fix-Up Sentences- Fix the errors in the sentence and write it correctly
- Build 7-up Sentences- Rewrite each sentence adding details, try to include at least 7 words
- Reading Passages and Questions
- Daily Quick Write
- Epic (books online) https://www.getepic.com/sign-in
- i-Ready Lessons (Students have their own username and passwords)
 - https://login.i-ready.com/
- List of Sight Words
 - Practice: write, spell, read, type in a document in google classroom
- Text Structure Review: Compare/Contrast & Problem/Solution





4th Grade Math Review Items to Access:

Mathantics.com

When on the site you can watch any video on Numeracy, Arithmetic, Algorithms (Part 1 and Part 2), Fractions, Fraction Arithmetic, and Mixed Numbers.

- OTHER ONLINE MATH LEARNING/PRACTICE OPTIONS:
- https://login.i-ready.com/
- https://play.prodigygame.com/

PAPER/PENCIL WORKSHEETS:

• COMPLETE ANY/ALL THAT YOU CAN IN THE PROVIDED MATH PACKET

Mrs. Adair: Science and Social Studies

Science Activities:

1. Go to www.schooltube.com

Type in Bill Nye and a topic (see the list below) in the search bar. Enjoy the video. These videos will review topics we have covered in science.

Earth Processes: mountains, volcanoes, caves, sinkholes, glaciers, valleys, plains, hills, trenches, plateaus, barrier islands, continental drift, seafloor spreading, Theory of Plate Tectonics

Matter: states of matter, Law of Conservation of Matter, physical and Chemical changes, atoms

Energy: static electricity, current electricity, conductors and insulators,

Electrical circuits, switches, renewable and nonrenewable energy sources,

Fossil fuels and alternative energy resources

2. Go to <u>www.studyjams.scholastic.com</u>

Click on Science and explore the following topics:

Landforms, volcanoes, earthquakes, Igneous rocks, sedimentary rocks, metamorphic rocks, fossils

Play the video and take the quiz at the end. Check your answers

3. Go to <u>www.mysteryscience.com</u>

You will have to sign up for free lesson access. Once you are signed up, click on any of the following for a lesson and activities. Hard copies of worksheets will be attached.

Work of Water

Birth of Rocks

Energizing Everything

4. Go to https://classroommagazines.scholastic.com/support/learnathome.html
Both science and social studies material can be found here. Choose whatever interests you at the 4th grade level! Have fun!

Social Studies Activities:

I have listed some of the topics that we have studied this year and will include some practice samples for you to work on. I would strongly suggest having a little fun and looking for videos and information about these topics on some of the following websites.

www.youtube.com

www.schooltube.com

***I am also including, as a hard copy, all the materials needed to complete work on the French and Indian War Escape Room we began on Thursday. Realizing most students didn't take this home with them at the day's end, you can just start over if you like!

**There is also a packet of Ohio Map activities for you to practice.

Topics we have studied:

Groups of people that have lived in Ohio:

Prehistoric people: Paleo, Archaic, Woodland, Fort Ancient People

Historic People: Delaware, Miami, Ottawa, Seneca, Shawnee, Wyandot

The French and Indian War

Technological innovations that originated in Ohio:

The lightbulb

The phonograph

The traffic light

The Gas mask

The cash register

Map Skills:

Using a compass rose

Using map scale

Labeling

Physical and political maps

Longitude and latitude

Interpreting maps

TOP SECRET

You are among a select group chosen to carry out a secret mission. Your mission, should you choose to accept it, is a top secret war investigation.

The Case:

Colonel Washington and his troops are struggling at their new fort called Fort Necessity. They did not evaluate the land before building. The fort is constantly flooding and supplies are getting ruined. In an effort to save the supplies, Colonel Washington has ordered his troops to find a safe, dry, secret hiding spot in the woods.

Washington's troops find a large hollowed out tree covered by moss in the deep woods. They decide to hide their supplies in the tree where no one will see them. They were told to write down the coordinates of the hiding spot so the supplies can be located in the future or in poor weather conditions.

Several nights have passed and French troops can be heard in the far off distance. Washington commands his troops to get the supplies from the secret location to prepare for battle. Soldiers search for hours but they can not find the tree where they hid the ammunition. No one wrote down the coordinates and now a few soldiers are lost in the middle of the woods. How far east should they go? How many feet north?

Your job is to find the 4 digit coordinates which will lead the General to the supplies and protect them from invasion. You will use a code name and solve the puzzles by decoding clues. Your code name is your favorite dessert PLUS the first letter of your <u>FIRST</u> name found below.

My Code Name is _____

A				
A= Avalanche	F= Fire	K= Knight	P= Peacemaker	U= Undercover
B= Bolt	G= Goblin	L= Lightning	Q= Quest	V= Virus
C= Cyclone	H= Hurricane	M= Magic	R= Racer	W= Wind
D= Daredevil	I= Ice	N= Ninja	S= Storm	X= explorer
E=Energy	J= Jet	O= Oasis	T= Thunder	Y/Z= Zip

Clue # I

- The name of the French and Indian War is a bit misleading. The war
 was not the French versus the Indians. The French and Indians were
 actually allies fighting on the same side.
- The French and Indian alliance fought against the British who paired up with a few different Indian tribes as well.
 - France and Britain had been fighting in Europe but the battle had spread to North America. French and British colonists were living in America at that time.
- British Americans far outnumbered the French. Therefore, the French colonists relied on the local Indian people to help them fight the British.
- This war was an important event leading up to the Revolutionary War in the colonies.
- In America, the fighting was referred to as the French and Indian War.
 It was a part of the Seven Years' War which was a global war in Europe, happening in the same time period.
 - The French and Indian War began in...

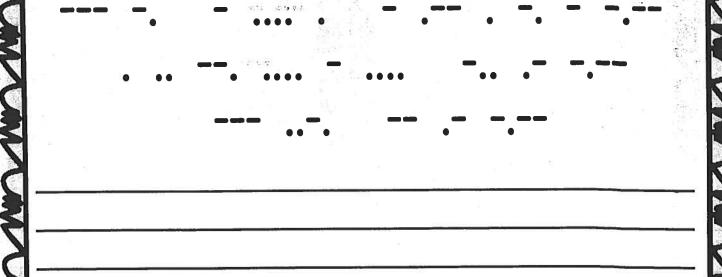
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12 18 22 4 4

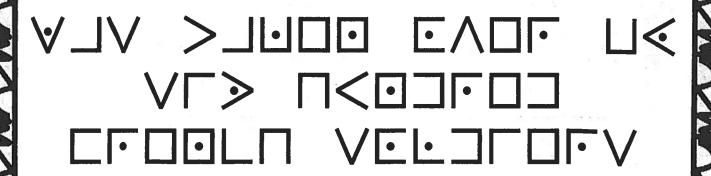
Clue # 2

- French colonists lived in the area currently known as Canada. During the time of the French and Indian War, the area was known as New France.
- The British and the French both claimed ownership of land between the Appalachian Mountains and the Mississippi River. Both countries wanted the land for trade and settlements. British colonies were already beginning to expand west.
- Claiming the land, the French built Fort Duquesne on the Ohio River.
 - France wanted control of the Ohio River but the British refused to allow that to happen.
- Due to the building of the fort, the first battle of the French and Indian War was the Battle of Jumonville Glen.
- George Washington, joined by forty men, led a surprise attack on Fort Duquesne.
- The French, led by Joseph Jumonville, returned fire using muskets but quickly surrendered.
 - This opening battle took place in 1754...



Clue #3

- The battle of Fort Necessity was July 3, 1754.
- George Washington and 293 men put together a small, poorly built log fort which he called Fort Necessity. Unfortunately, the fort was built on low lying grounds that would often flood.
- Within days, hundreds of French soldiers surrounded Fort Necessity and forced Colonel Washington to surrender.
- He was sent back to Virginia to tell the British that the Ohio Territory
 was now French territory. The British were angry with the message
 and decided to respond with force.
- General Edward Braddock and Colonel Washington were again sent to takeover Fort Duquesne.
 - The British marched in straight lines on their way to Fort Duquesne making it easy for the French and Indians to fire from behind trees, rocks or hills. Braddock was killed in the battle.
 - The British were outnumbered and Washington told his troops to retreat back to Fort Necessity.
 - From the woods, the French put heavy fire on Fort Necessity.
 - · Washington ordered his troops to fire back, but their aim was poor.
- Adding to the problems was a heavy rain that soaked the fort and gun powder.
 - Fort Necessity...



Clue # 4

- Multiple French, Indian and British battles took place over several years.
- In 1756, the French captured Fort Oswego and took 1,700 British prisoners captive.
- In 1757, the French also took Fort William Henry killing around 150 British soldiers.
- By 1758, Britain made peace with most of the Native American Indians who then began to end their alliance with the French.
 - In 1759, the British claimed victory and occupied the French city of Quebec, Canada.
 - In 1760, Montreal, Canada was captured by the British.
 - France agreed to give all of its land in North America back to Britain and Spain agreed to give up Florida.
- The Treaty of Paris was signed, ending the French and Indian War on...

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Second number:	
The year the Treaty of Paris was signed MINUS	
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Third number:	
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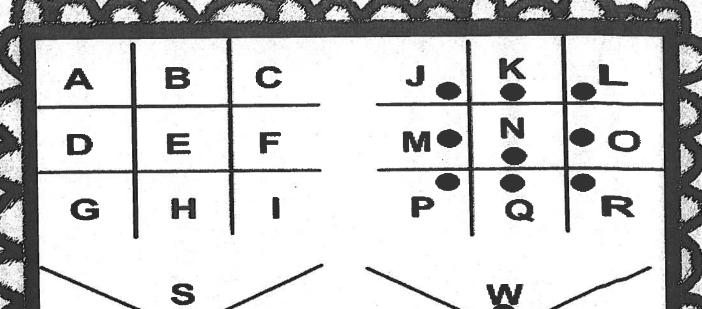
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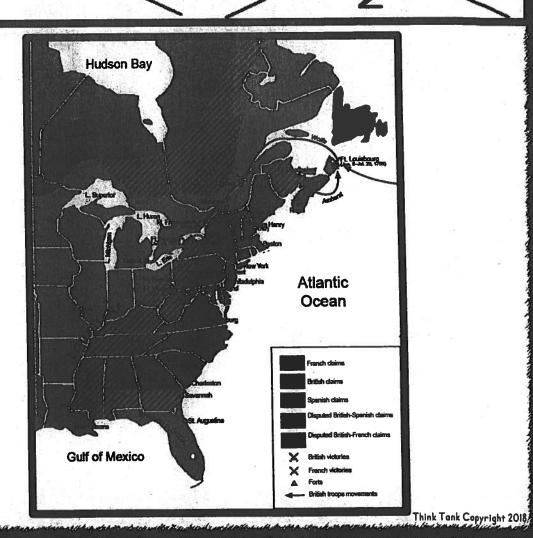
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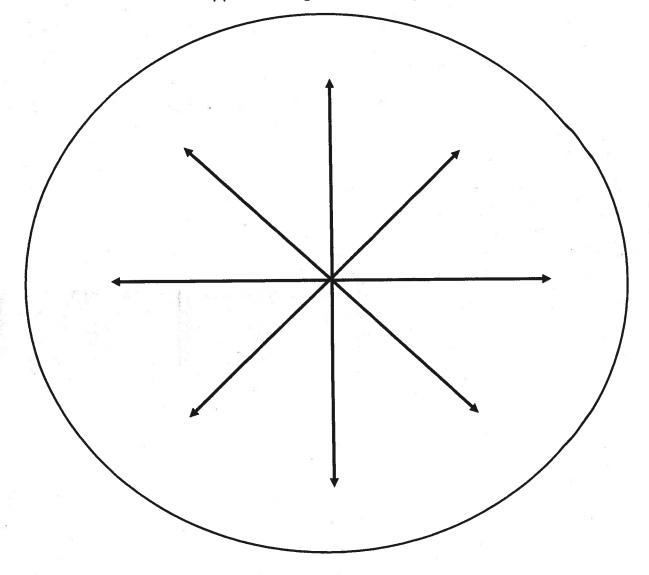
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Student Notes

Directions: Label the compass rose below using cardinal and intermediate directions from the word bank to use as a support throughout this assignment.

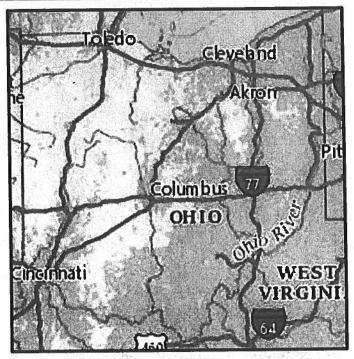


	Word	l Bank	
North	South	East	West
Northwest	Northeast	Southwest	Southeast

Scale shows relative distances on maps and can be used to determine how far locations are from one another. Use this information as you practice these skills in the activities that follow!

Ohio Map Packet

Map Skills Practice

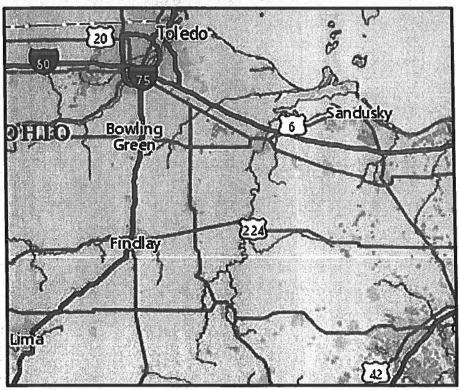


<u>Scale</u> = 50 miles

Map Source: https://viewer.nationalmap.gov/advanced-viewer/

	t direction would you tro ous? Is this a cardinal o			to
		8		
2. What Toledo	t direction would you tr o?	avel if you were to	go from Columbus	to
3. Wha	at is the relative direction	on of Akron to Tole	do?	
				

4. About how far is Akron from Columbus?



<u>Scale</u>

= 20 miles

Map Source: https://viewer.nationalmap.gov/advanced-viewer/

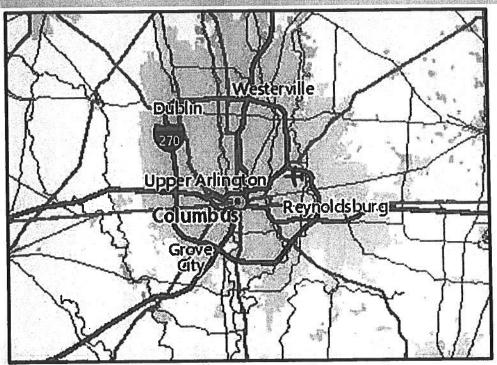
Questions

5. What direction would you travel if you were to go from Findlay to Lima? Is this a cardinal or intermediate direction?

6. What is the relative direction of Bowling Green to Findlay?

7. What is the relative direction of Sandusky to Toledo?

8. About how far is Sandusky from Findlay?



<u>Scale</u> = 10 miles

Map Source: https://viewer.nationalmap.gov/advanced-viewer/

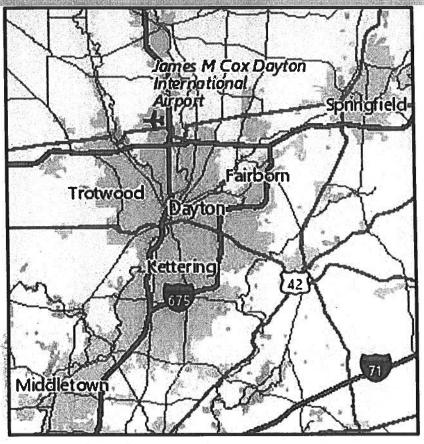
Questions

9. What interstate goes around Columbus?

10. If you were to travel from Columbus to Westerville, what direction would you be traveling?

11. What is the relative direction of Reynoldsburg to Columbus?

12. About how far is Westerville from Grove City?

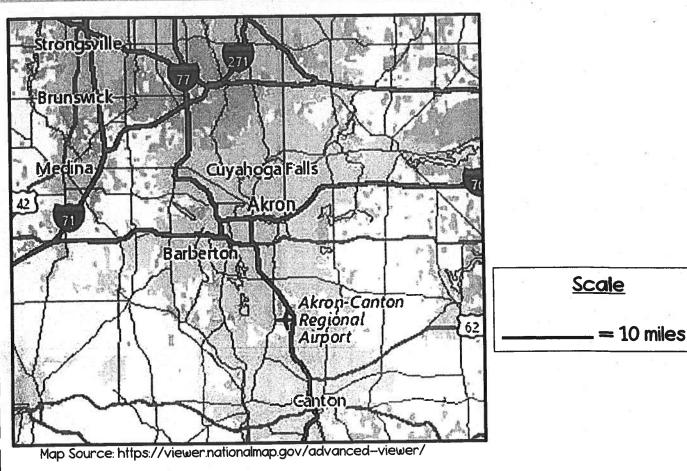


<u>Scale</u> = 5 miles

Map Source: https://viewer.nationalmap.gov/advanced-viewer/

Questions

- 13. The Dayton International Airport is _____ of Dayton.
- 14. If you were to travel from Springfield to Dayton, what direction would you be traveling?
- 15. What is the relative direction of Middletown to Dayton?
- 16. About how far is Kettering from Springfield? ______



Questions

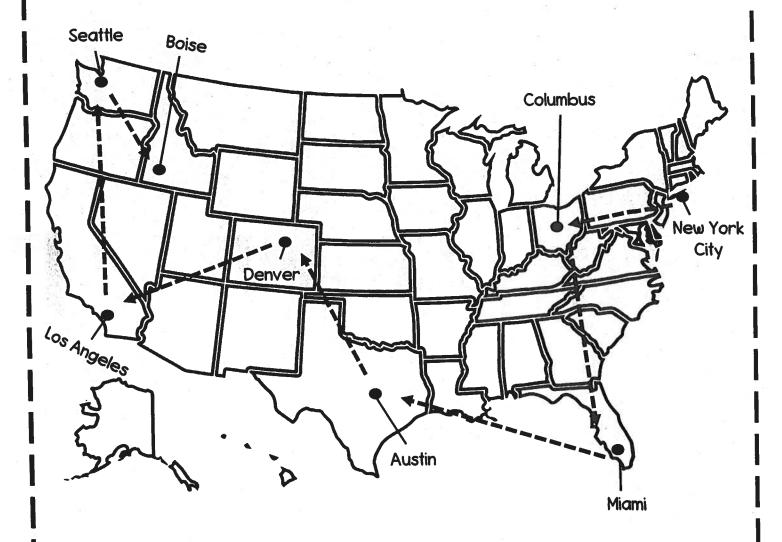
- 17. The Akron-Canton Regional Airport is _____ of Canton.
- 18.. If you were to travel from Medina to Cuyahoga Falls, what direction would you be traveling?
- 19. What is the relative direction of Cuyahoga Falls to Akron?
- 20. About how far is Canton from Akron? ______

05

Trip Across the State Project

EXAMPLE

Directions: On the outline of the United States below, label **seven** cities in their correct location. You will also need to create a scale for your map. After that, follow the directions on the next page.



<u>Scale</u> = 250 miles

EXAMPLE

Directions: In the space that follows, write down a series of directions to go with your Trip Around the State map! Be sure include distance and direction, as well as a mix of cardinal and intermediate directions. This should go directly with the journey you have created on the previous page.

Example: Starting at Washington, D.C., travel 200 miles Northeast to New York City.

- Starting at New York City, travel 500 miles West to Columbus.
- 2. From Columbus, travel 1,000 miles South to Miami.
- 3. From Miami, travel 1,000 miles Northwest to Austin.
- 4. From Austin, travel 750 miles Northwest to Denver.
- 5. From Denver, travel 750 miles Southwest to Los Angeles.
- 6. From Los Angeles, travel 1,000 miles North to Seattle.
- 7. From Seattle, travel 500 miles Southeast to Boise.
- *Miles are rounded to the nearest increment of 250.

Trip Across the State Project

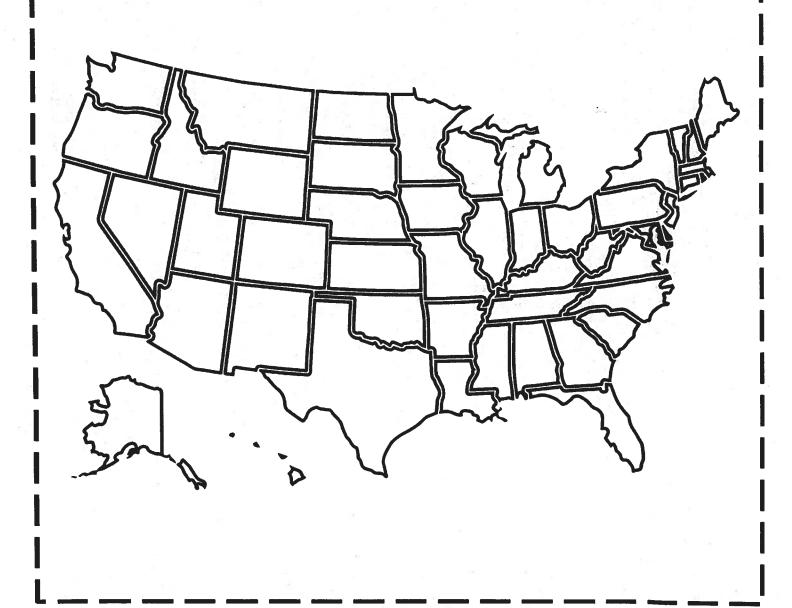
Directions: On the outline of the state below, label seven cities in their correct location. You will also need to create a scale for your map. After that, follow the directions on the next page.

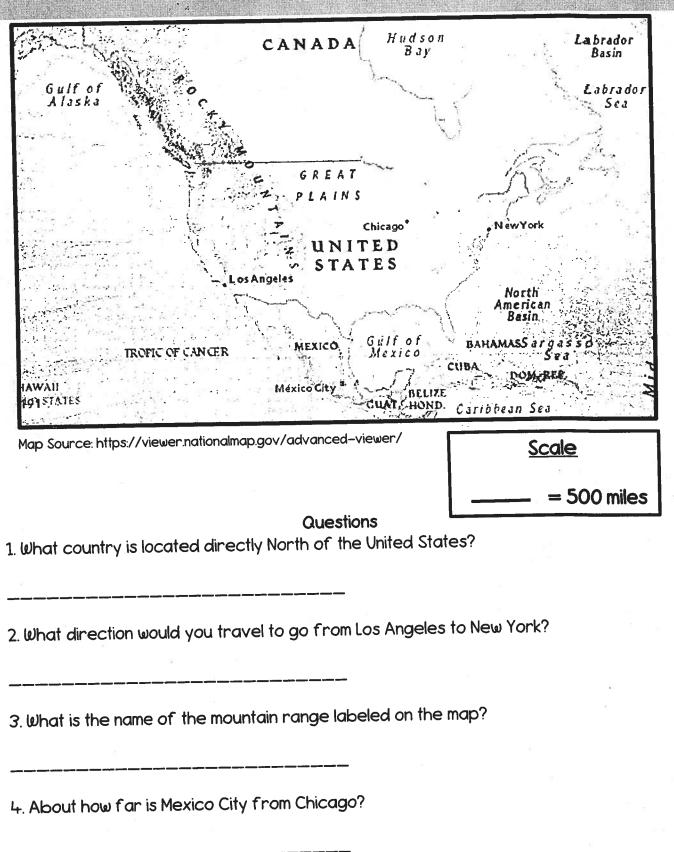
Scale

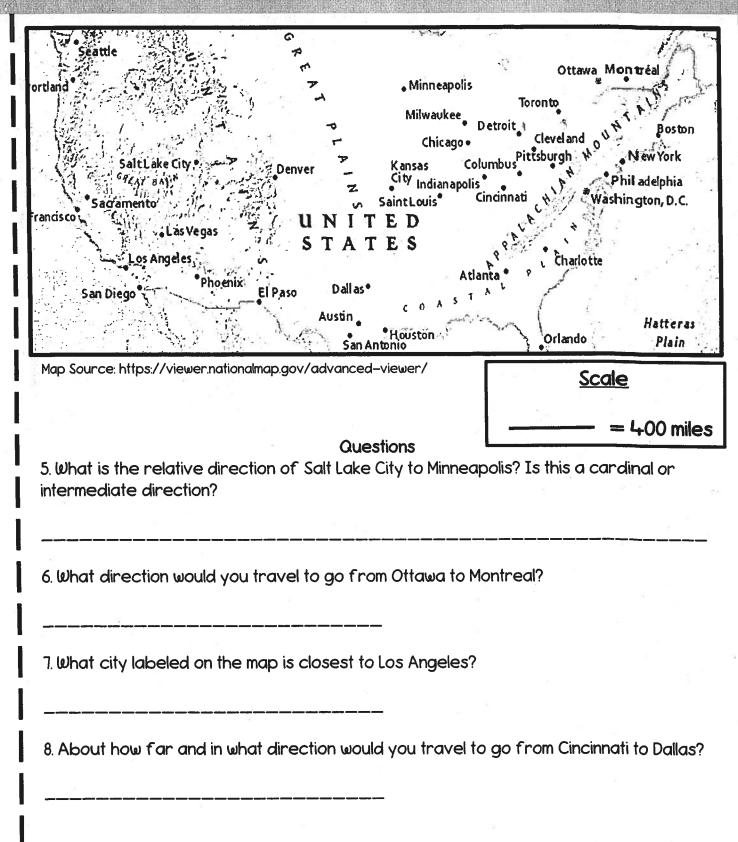
Trip Across the State Project

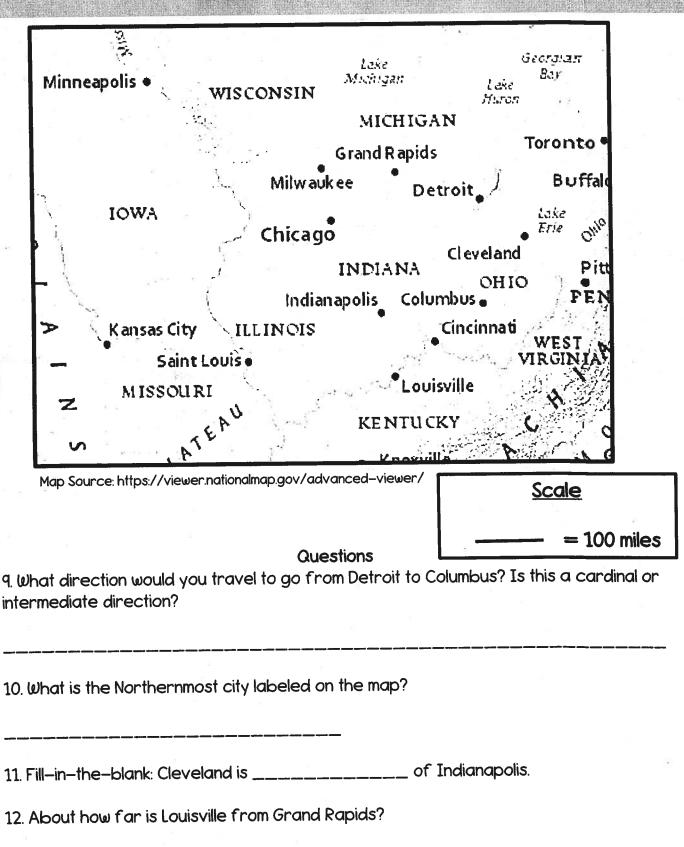
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Extra Practice Packet

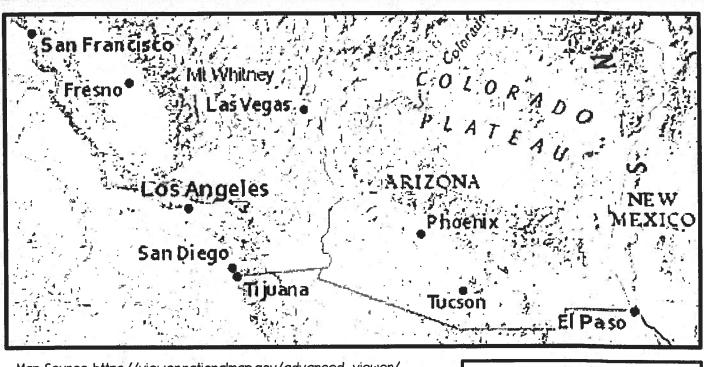








Dallas TEXAS	ALABAMA MISSISSIPPI LOUISIANA COASTA	NORTH CAROLINA Charlotte Greenville SOUTH CAROLINA GEORGIA P FLORIDA Jacksonville
San Antonio	New Orleans	Orlando
		Tampa
Map Source: https://viewer.nationa	almap.gov/advanced-viewer/	Scale
	Questions	= 250 miles
13. What direction would you intermediate direction?	Questions u travel to go from Memphis to	——— = 250 miles
	u travel to go from Memphis to	——— = 250 miles
intermediate direction? 14. What state is Orlando lo 15. If you lived in Georgia of through?	u travel to go from Memphis to	= 250 miles



Map Source: https://viewer.nationalmap.gov/advanced-viewer/

Scale = 125 miles

Questions

17. What city labeled on the map is closest to El Paso?

18. What is the relative direction of New Mexico to Arizona? Is this a cardinal or intermediate direction?

19. What direction would you travel to go from Phoenix to Fresno?

20. About how far is Las Vegas from San Diego?

https://www.teacherspayteachers.com/Store/The-Lit-Classroom

The Alchemist's Potion PART 1

Name:	Many Maring Property of	Andrewski (1988)
Date:		ž -
121.11		IDAMES AND THE A

My Initial Model

1a) In the box below, draw a picture of what you think happened to make the dull penny become shiny. It's ok if it's just a guess for now. Label your drawing. If you want, include things that are too small to see.

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	*	
100		
		=
41)	Figurian and other than	ahiaia biiala.
1b)	Figuring out why the Can you think of que	

liquid that will help you figure it out?

My Revised Model

2a) Your ideas might have changed since your last drawing. In the box below, draw what you think happens when dull brown copper pennies get shiny. Label your drawing. If you want, include things that are too small to see.

2b)	Explain your drawing:	
20		III.
E		

You'll fill in Part 2 of this worksheet on another day, when you do the next Mystery

ACTIVITY PREP:Bowl Labels

As part of your activity prep:

- Cut out these labels.
- Tape them on or beside the bowls of testing liquids.



Soapy Water

Vinegar

Salt & Vinegar

Salty Water

Test like an alchemist

What happens to a copper penny when you dip it in...



Soapy Water





Vinegar





Salt & Vinegar







Salty Water



Remember, you did Part 1 of this sheet last Mystery (questions 1 & 2).

3c)

the worksheet from last Mystery).

Remembering what you wrote in 2b, think about what might happen in this experiment. Write your ideas:

The Alchemist's Potion PART 2

lame:		
Date:	- W. 200	

	A . A . La
Write the date and time. In the box below, draw what your experiment looks like now. Time:	Make a drawing that explains how you thin copper got onto the nail. Label your drawin you want, include things that are too small to
Describe the liquid in the bag:	4b) What evidence do you have to support the explanation that you drew? (Use informations or from videos you saw in class

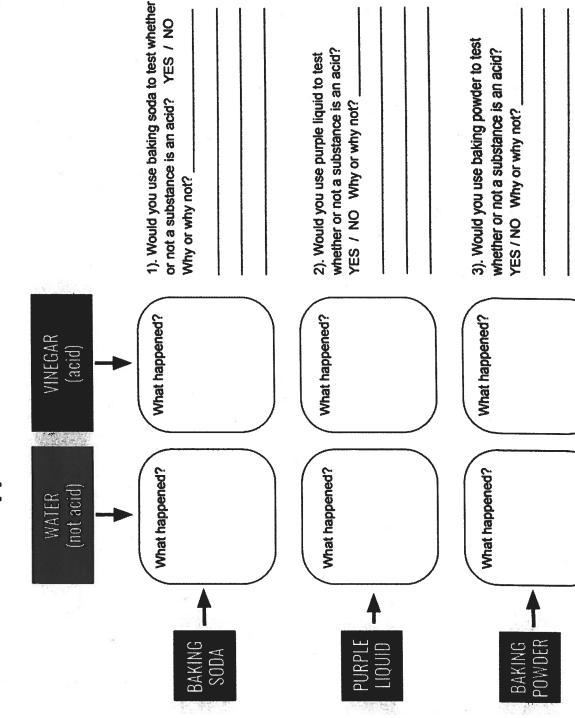
Your experiment may take a few hours to finish. If you notice something changing in the bag, draw a picture on the back of this page and write down the time.

MYSTERY science Chemical Magic | Mystery 2

Name:

MYSTERY SCIENCE

Describe what happened:



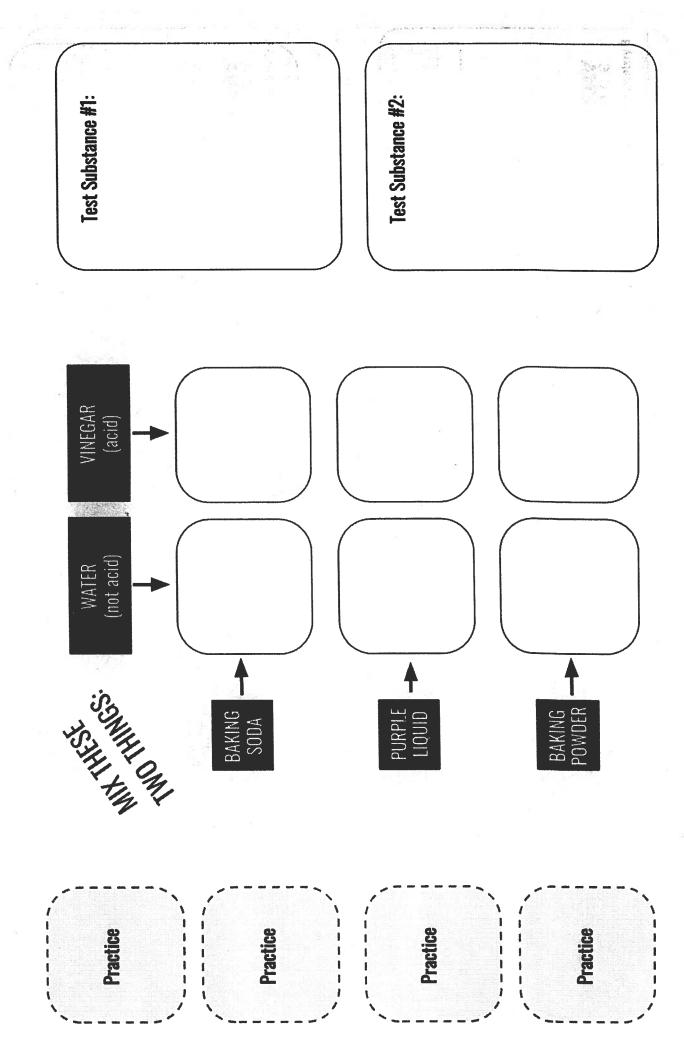
Which are acids?

Test Substance #1:

using What happened? Do you think it's an acid? YES / NO		TO ACTION
What happened? Do you think it's an acid? YES / NO	4). I tested	
What happened? Do you think it's an acid? YES / NO	usina	
Do you think it's an acid? YES / NO	What happened?	
Do you think it's an acid? YES / NO		
Do you think it's an acid? YES / NO		
Do you think it's an acid? YES / NO	á	
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Ice #2:		- The state of the		\$ 000000			Ken Gillis
Test Substance #2:	5). I tested	usina	What happened?		ā		i i

Do you think it's an acid? YES / NO



Chemical Magic | Mystery 3

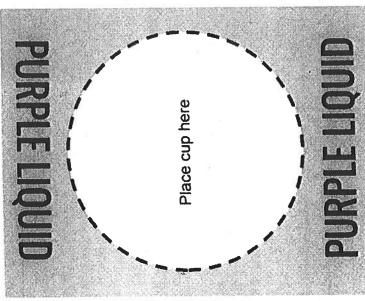
esting Supplies

fou need:

1 Straw 2 Craft Sticks or Spoons

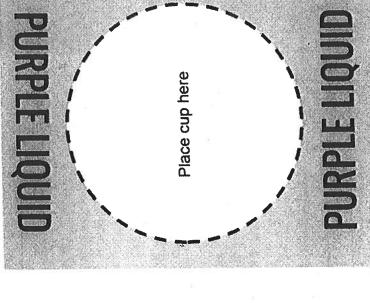
Baking Soda Purple Liquid Baking Powder

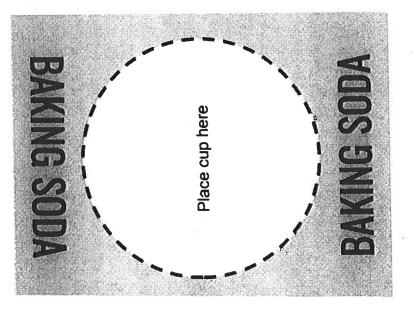
BAKING POWDER



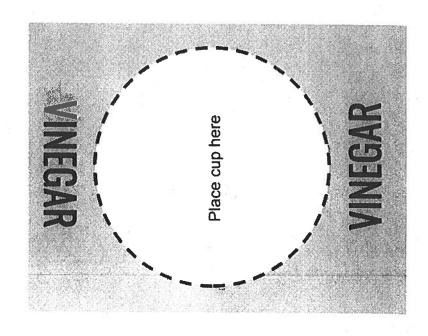
Place cup here

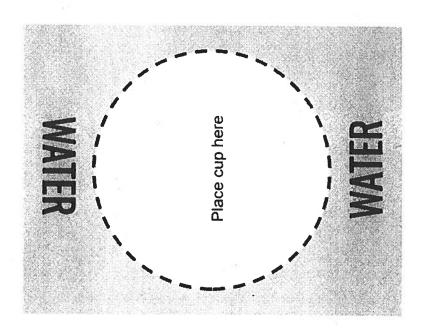
BAKING POWDER





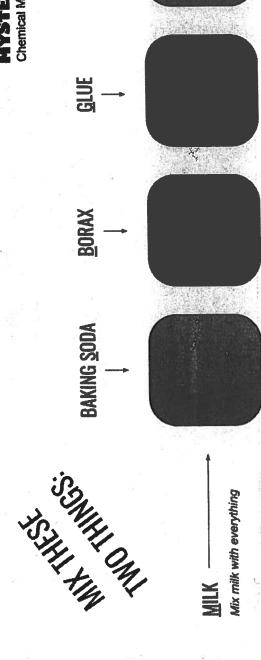
- You need:
 2 Straws
 Water
 Vinegar





MYSTERY SCIENCE Chemical Magic | Mystery 4

YINEGAR



BAKING SODA

Mix baking soda with
everything but milk
(you already mixed
baking soda and milk!)

BORAX

Mix borax with everything but milk and baking soda (you already mixed those!)

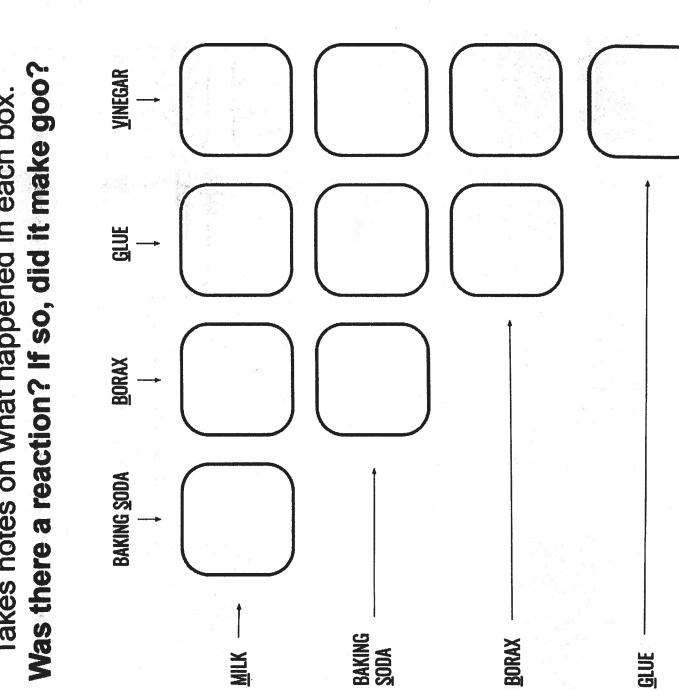
aposeds 1

GLUE
Mix glue with everything
but milk, baking soda;
and borax (you already
mixed those!)

ELYSTERY SCIENCE Chemical Magic | Mystery 4

Was there a reaction? If so, did it make goo? Takes notes on what happened in each box.

Name: Name:



Chemical Magic | Mystery 5

Capturing Chaos

Name:

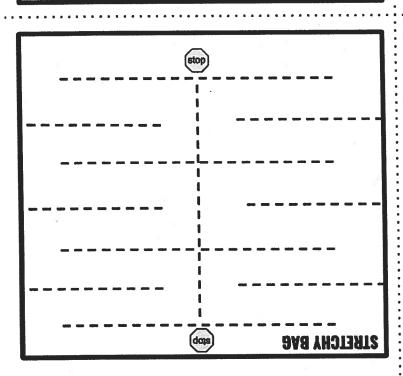
Last time, you used 6 spoons of vineg	of vinegar and 1 spoon	of baking soda. WI	What will you do	fferently this ti	mes
What is your goal?		* <u>*</u> <u>*</u> <u>*</u> =			
th your partner, decide on your second allenge your backners.				ur first experin	nent exploded,
grallinges en andreman a					
S# Jnemineqx		1 8			
ii)					
		6			
					4
		27.			
M25 (***)					
_ a			_		
Think about why that happened. Draw a					
Y					

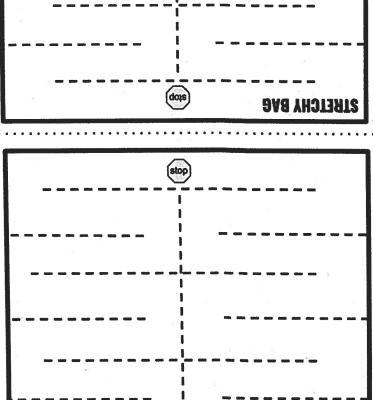
MAZLEMA SCIENCE Chemical Magic | Mystery 5

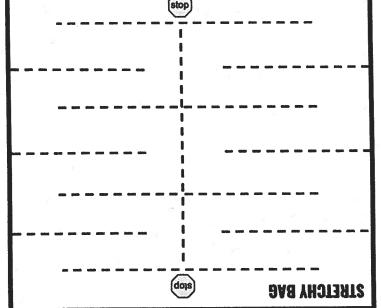
Stretchy Bag Templates

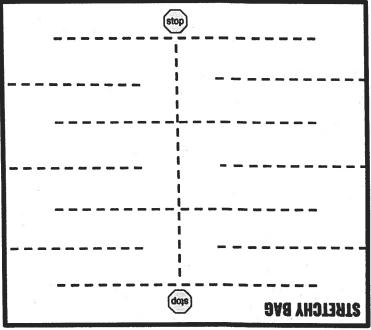
STRETCHY BAG

dots









Mante	1	Name:	
Volcano Discoveries			
Suppose you wanted to tell an explorer with	here to look for volcanoes. Che	ck the box of the sentence you w	vould choose.
You can find just as many volcanoYou can find more volcanoes near		•	
2. If you had to describe how the volcanoes	on your map are arranged, wha	at sentence would you choose?	
 The volcanoes are scattered ever The volcanoes are in groups near 	*		<i>*</i>
3. What if you <u>wanted</u> a volcano to pop up in Use information from your map to explain	•	you choose to live and why?	
	300000000000000000000000000000000000000		27
			al .
		in the second se	
		iaya	
		Name:	
Volcano Discoveries			
		Name:	
Volcano Discoveries	where to look for volcanoes. Cho	Name:eck the box of the sentence you take the coast.	
Volcano Discoveries 1. Suppose you wanted to tell an explorer w • You can find just as many volcan	where to look for volcanoes. Cho noes in the middle of a continen ar the ocean than you can in the	eck the box of the sentence you tas you can near the coast. e middle of the continent.	
Volcano Discoveries 1. Suppose you wanted to tell an explorer w O You can find just as many volcano O You can find more volcanoes near	where to look for volcanoes. Cho noes in the middle of a continent ar the ocean than you can in the s on your map are arranged, wh enly across the map.	eck the box of the sentence you tas you can near the coast. e middle of the continent.	



North America Map: Volcano List

Name:

Make sure you have the map that goes with this page. It should look like this:



2). Read the location of each volcano out loud so your partner can draw them on the map. After each is done, put a checkmark in the box.

2009	Alaska, USA	Mount Redoubt	7, H	0
2014	Alaska, USA	Mount Cleveland	,, 3	0
1931	Alaska, USA	Mount Aniakchak	5, X	0
1400	California, USA	Mammoth Mountain	17, S	0
1915	California, USA	Lassen Peak	16, R	0
2015	Hawaii, USA	Kilauea	6, Y	0
Year Last Erupted	Country	Name of Volcano	Location	Added to map?

Switch jobs with your partner now so you get a chance to map and they get a chance to announce.

1857	Mexico	Tres Virgines	18, W	0	
2015	Mexico	Popocatepetl	22, Y	0	
1952	Mexico	Paricutin	21, Y	0	
2013	Guatemala	Pacaya	24, Z	0	
1999	Alaska, USA	Mount Wrangell	9, G	0	7
2008	Washington, USA	Mount St. Helens	15, 0	0	

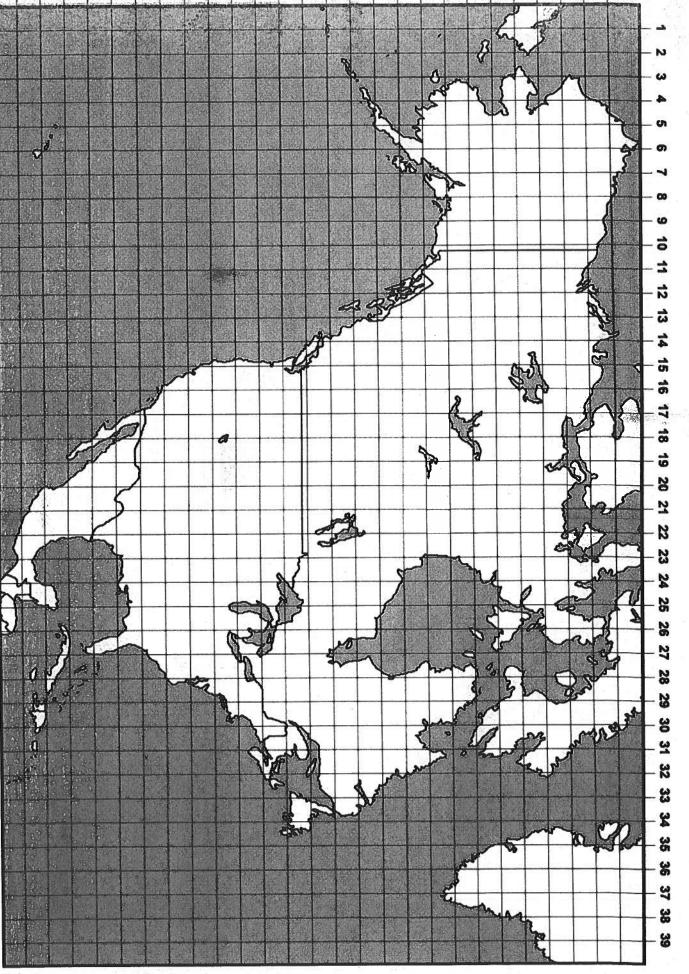


North America Map

Name: _____

science

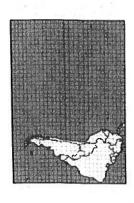
The Birth of Rocks | Mystery 1



South America Map: Volcano List

Name:

Make sure you have the map that goes with this page. It should look like this:



Read the location of each volcano out loud so your partner can draw them on the map. After each is done, put a checkmark in the box.

Added to map?	Location	Name of Volcano	Country	Year Last Erupted
0	29, V	Burney	Chile	1910
0	29, Q	Copahue	Chile	2012
0	29, T	Mount Hudson	Chile	1991
0	28, C	Nevado del Ruiz	Colombia	2012
0	29, P	Planchón-Peteroa	Chile	2010
0	30, L	Pular	Chile	1990

Switch jobs with your partner now so you get a chance to map and they get a chance to announce.

0	0	0	0	0	0
24, D	30, J	26, A	30, K	29, 1	28, D
Wolf	Wallatiri	Turrialba	San Pedro	Sabancaya	Reventador
Galápagos, Ecuador	Chile	Costa Rica	Chile	Peru	Ecuador
2015	1985	2015	1960	2013	2014



The Birth of Rocks | Mystery 1

South America Map

Name:

SCIONCE
The Birth of Rocks | Mystery 1

Asia Map: Volcano List

Name:

Make sure you have the map that goes with this page. It should look like this:



Read the location of each volcano out loud so your partner can draw them on the map. After each is done, put a checkmark in the box.

Added to map?	Location	Name of Volcano	Country	Year Last Erupted
О	32, N	Chirinkotan	Russia	2013
0	31, P	Chirpoi	Russia	2013
0	39, M	Gareloi Volcano	Alaska, USA	1989
0	23, X	Guishan Island	Taiwan	1795
0	34, J	Klyuchevskaya Sopka	Russia	2015
0	33, L	Koryaksky	Russia	2008

Switch jobs with your partner now so you get a chance to map and they get a chance to announce.



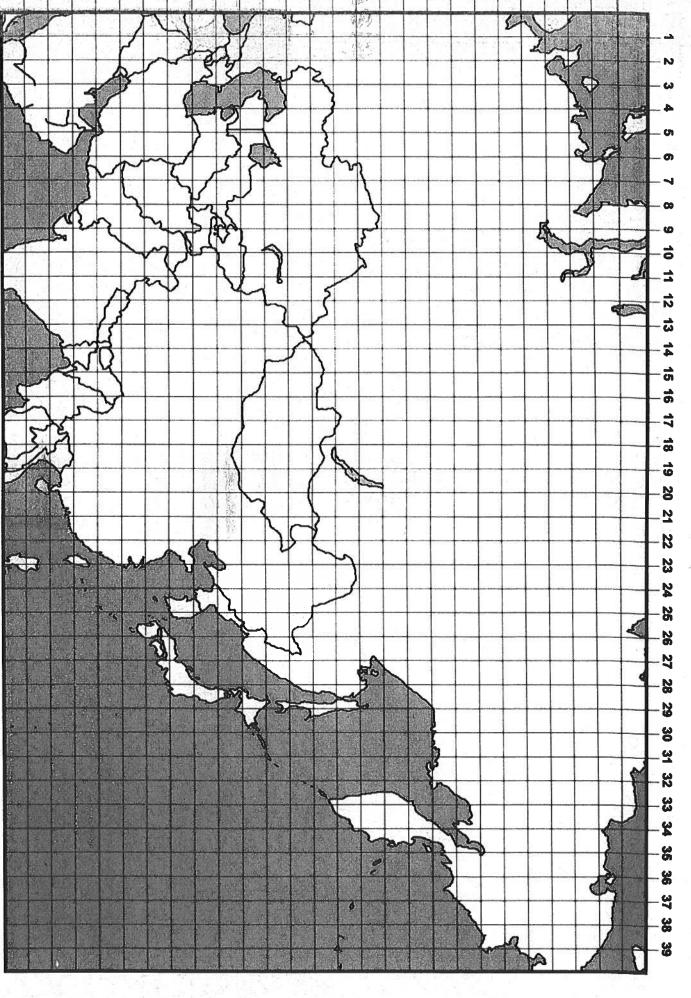
The Birth of Rocks | Mystery 1

Asia Map

Name: Name:

SCIENCE

The Birth of Rocks | Mystery 1



Australia & Nearby Islands Map: Volcano List

Make sure you have the map that goes with this page. It should look like this:



Read the location of each volcano out loud so your partner can draw them on the map. After each is done, put a checkmark in the box.

V	Added to map?	Location	Name of Voicano	Country	Year Last Erupted
27.5	0	32, F	Bagana	Papua New Guinea	2006
	0	23, G	Egon	Indonesia (Java)	2005
	0	31, F	Garbuna Group	Papua New Guinea	2005
33.5	0	-160 M	Kaba	Indonesia (Sumatra)	2000
h ³	0	24, A	Kanlaon	Philippines	2006
444. T	0	30, F	Manam	Papua New Guinea	2006

Switch jobs with your partner now so you get a chance to map and they get a chance to announce.

	a 502			20	إيافان
0	0	0	0	0	0
24, D	17, D	22, G	19, F	38, Q	21, G
Soputan	Sinabung	Rinjani	Papandayan	Mount Tongariro	Merapi
Indonesia (Java)	Indonesia (Sumatra)	Indonesia (Java)	Indonesia (Java)	New Zealand	Indonesia (Java)
2007	2014	2004	2002	2012	2010



The Birth of Rocks | Mystery 1

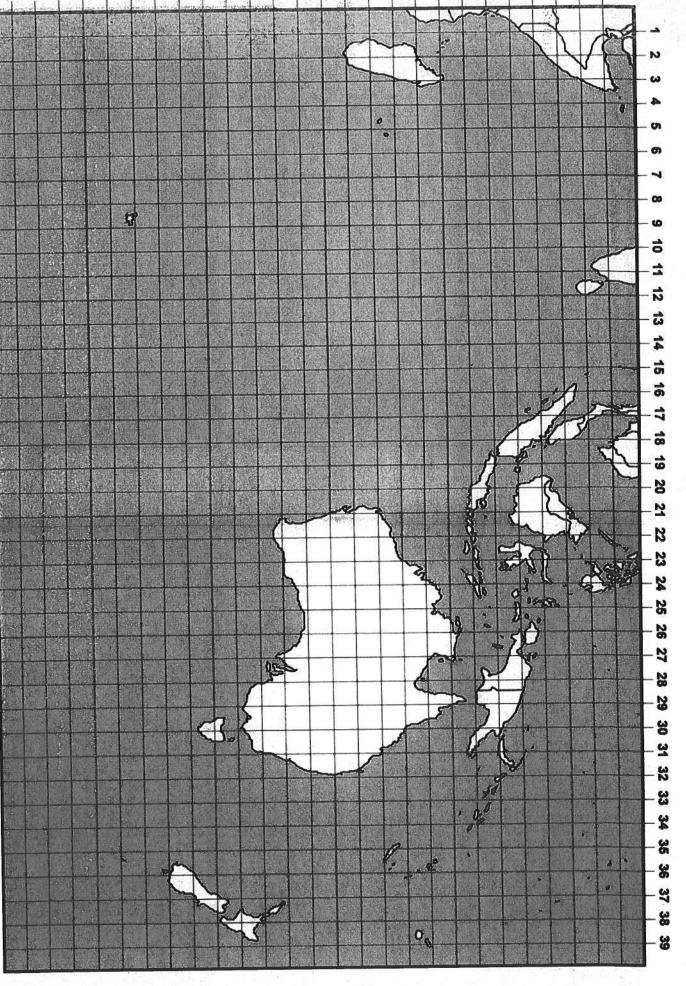
Name:

Name:

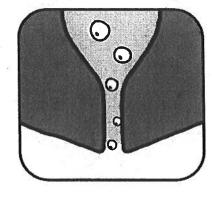
Australia & Nearby Islands Map

Name:

S C I O N C O
The Birth of Rocks | Mystery 1



Lava Experiment #1



Bubbles form in lava as it rises up from deep underground. With a straw, you can add bubbles to your lava, too.

Stir each sample with your straw, then blow bubbles in each cup. Note: bubbles in the thick lave may not look like the bubbles you're used to. Watch for craters when they burst through the surface.

the thick lava

the thin lava

Z. Which lava is it easiest to blow bubbles in?

Can you do it in the thin lava? Explain:

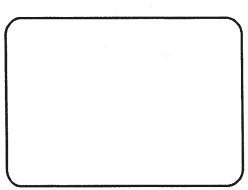
See if you can blow just 1 bubble in each cup.

ava? Explain:	in the thick I	yon do it i	Can

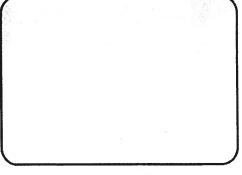
How are the bubbles different in the different lavas?

Name.

Lava Experiment #2

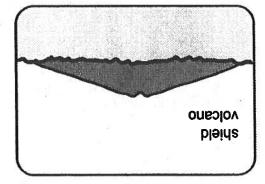


With your partner, put 1 spoonful of the THIN lava on the plate. Try to make it into a mountain-shape. Draw a picture in the box showing how tall it turned out:



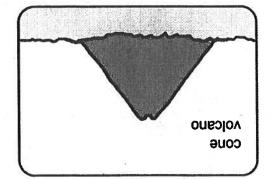
What kind of lave do you think shield volcanoes have?

Repeat step 1 with the THICK lava.

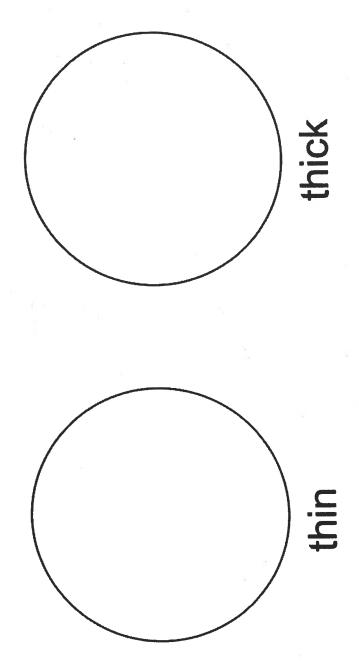


Why?

What kind of lave do you think cone volcanoes have?



WEALS.

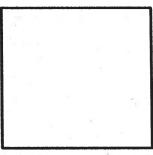


Name:

Sugar Shake Data Sheet

1

Draw what your sugar cube looks like here:



2

What will it look like after 200 shakes? Draw your best guess here:

3 How many edges does a sugar cube have? _____

4

Trial #	Shake this many times:	Describe the shape of the sugar cubes you shook. How did they change?	How many edges still have some color?
#1	40		
#2 switch jobs	40		
#3 switch jobs	40		
#4 switch jobs	40		
#5 switch jobs	40		

- You've done 5 trials of 40 shakes each. That's 200 shakes! What do the sugar cubes look like now? Draw one in the box:
- 6 Does your drawing match your guess in question 2? Yes No

STATE OF STATE		 120 att	453
Name:			

Saving My Slide-City Home

What's the name of your plan?	
Explain how your plan will protect your	house or prevent a landslide:
6	
Draw you	ır plan in this box.
2	
±	
- 10 to 10 t	
n	
Vi	
*41	

put sticker here

MYSTERY SCIENCE

Work of Water | Mystery 1

put sticker here

put sticker here

This land belongs to:

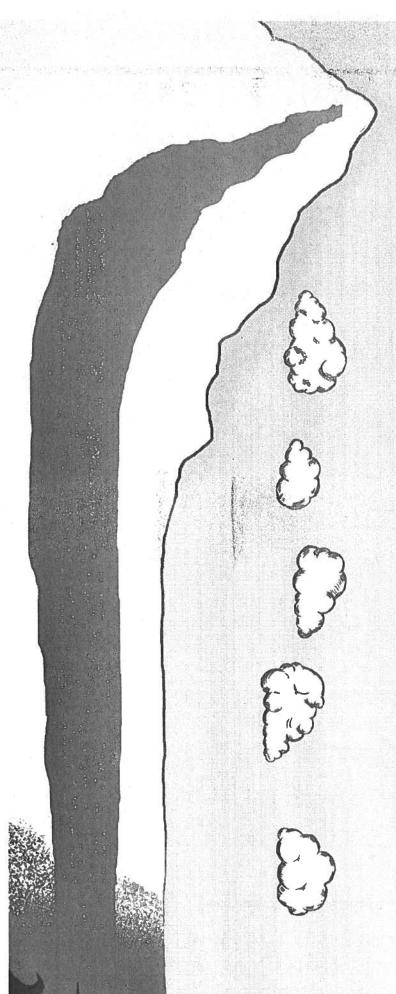
put sticker

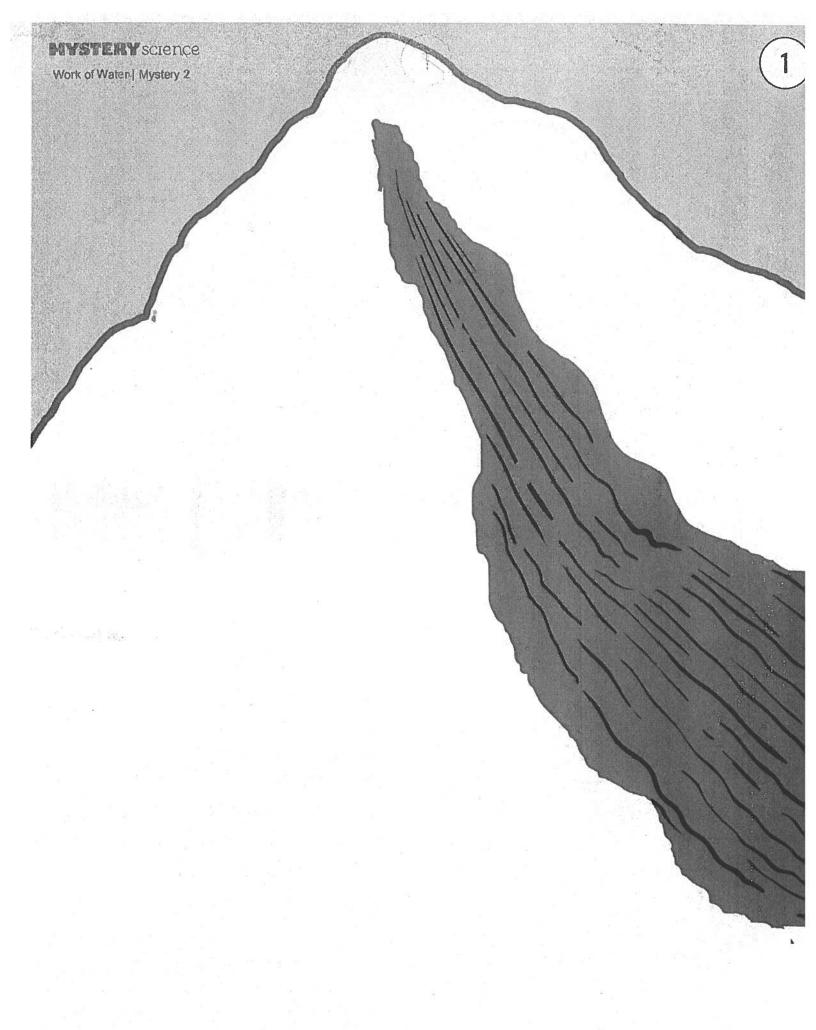
Draw the river rocks

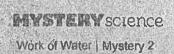
WORK of Water | Mystery 2

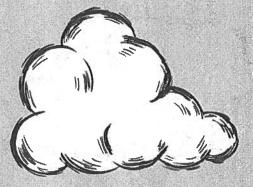
Draw rocks breaking up in the river, starting at the top of the mountain and ending at the ocean.

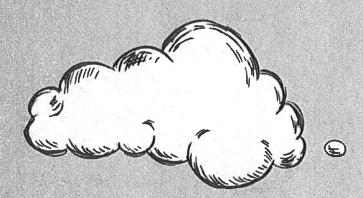
Name:

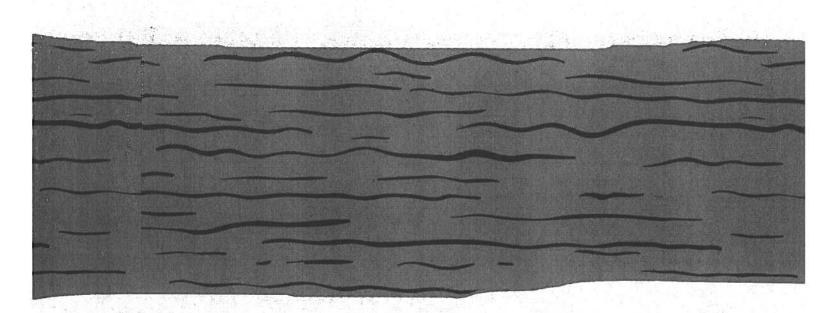










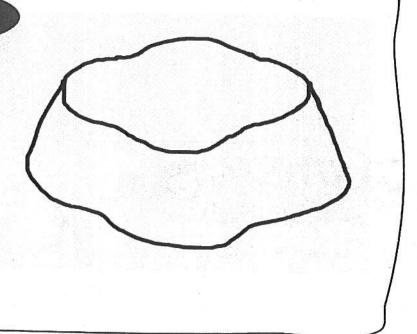


Name:

How did water change your land?

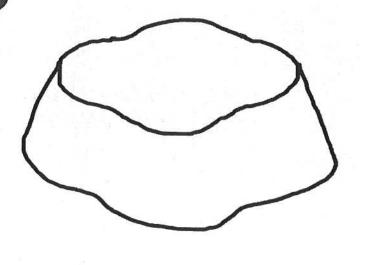
Rainstorm # 1

Draw what happened:



Rainstorm # 2

Draw what happened:



SCIENCE Work of Water | Mystery 3

Save the Hills

First Test

Draw and label what you added to your first hill to try to protect it from erosion.



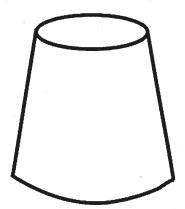
Draw what your first hill looked like after the rain.

What	do yo	ou think	will	happen'	?

what did happen	!	
5		

Second Test

Draw and label what you added to your second hill to try to protect it from erosion.



What do you think will happen?

Draw what your second hill looked like after the rain.

What did happen?