STEM SPARK

Presents

Dissolving!

Candy Chemistry!

Pop rocks are little pockets of gas trapped in sugar! When you put them in your mouth, your saliva dissolves the sugar causing the POP

Lots of things dissolve sugar. In this experiment, you are going to explore which liquids dissolve sugar the best!

My hypothesis:

I think the _____ will dissolve the pop rocks the fastest.

I think the _____ will dissolve the pop rocks the slowest.

Material Exploration!

Looks Like:

Smells Like:

Tastes Like:

Sounds Like:

Candy Chemistry!

Pop Rocks • Vinegar • Water • Olive Oil

	I think:	I see:	I hear:	Time:
1 				
2 				
3 				

My conclusion:

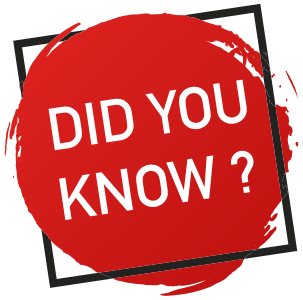
The _____ dissolved the pop rocks the fastest.
The _____ dissolved the pop rocks the slowest.

I learned:

Pop-Rocks are made up of _____ and _____.
When you put sugar in a liquid and it disappears, that means it _____. Sugar dissolves best in_____ and the worst in _____.

Word Bank: vinegar water oil gas sugar dissolved

Science Extension!



The temperature of liquids have a HUGE impact on how well they dissolve sugar! Try this experiment again using only water. Record how quickly hot, cold and room-temperature water dissolves Pop-Rocks!

My hypothesis:

I think the _____ will dissolve the pop rocks the fastest.
I think the _____ will dissolve the pop rocks the slowest.

Candy Chemistry!

Pop Rocks • Hot Water • Cold Water • Room-Temperature Water

		I think:	I see:	I hear:	Time:
1					
2					
3					

My conclusion:

The _____ water dissolved the pop rocks the fastest.
The _____ water dissolved the pop rocks the slowest.

I learned:

_____ plays a huge role in how well water dissolves sugar. Sugar dissolves best in_____ water and the slowest in _____ water.

STEM-Spark Stumper:

The _____ water is most similar to the saliva in my mouth.

Word Bank: hot cold temperature hot room-temperature