	Student worksneet: Nucleation	
Researcher		
-		

## Part 1. Growth of bubbles

What factors affect the growth of bubbles over time State your claim and provide evidence in the table below.

Factors that <b>increase</b> nucleation	Factors that <b>decrease</b> nucleation
Evidence:	Evidence:
Evidence:	Evidence:
Evidence:	Evidence:

## Part 2. Mentos and Diet Coke

Based on the Mentos and Diet Coke activity, complete the following questions.

<u>Key Questions</u>	NOTES:
How is Diet Coke a colloid?	
conora:	
How does water "resist" the expansion of bubbles?	
What parts of the Mentos	
candy break the surface	
tension of water?	

Draw a picture of how a  Mentos candy might look with lots of nucleation sites		
for CO2 and bubbles forming.		
By comparison, draw a marble as it sinks through the Diet Coke.		
Explain in your own words v	why Mentos in Diet Coke results in a geyser.	
	,	
What other substances lower the surface tension of water?		

What does nanotechnology have to do with nucleation?