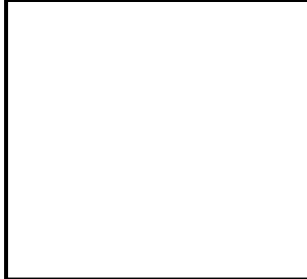


# Sugar Shake Data Sheet

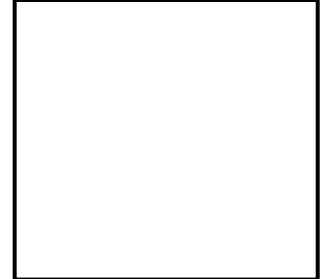
**1**

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	<b>40</b>		
#2 switch jobs	<b>40</b>		
#3 switch jobs	<b>40</b>		
#4 switch jobs	<b>40</b>		
#5 switch jobs	<b>40</b>		

**5**

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

- 7 What happened to the sugar cubes when they bashed together in the container?  
How are they different from the one you didn't shake?

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- 8 When you take the sugar cubes out of the container, what's left in the container?  
Where did that come from?

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- 9 What do you think would happen if you shook rocks instead of sugar cubes?

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- 10 How many more shakes do you think it would take to make the sugar cubes **really** round  
(like a marble)? \_\_\_\_\_ If you have time, try it out!