

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		

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?

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

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

- 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!