

Name: _____ Per _____

Bailing Beakers Demonstration

Practice Sheet # 52

Demo	What is being done?	Observations	Questions
1	Two beakers are filled with water.	Observations:	Approximately how much water is in each beaker initially? Beaker 1: Beaker 2:
	Two people try to empty water from their beaker into the other person's beaker using small cups. Each person must count to 1 second before pouring.	Observations: Draw what you observe:	Approximately how much water is in each beaker at the end? Beaker 1: Beaker 2: Did the water level change in these beakers from before? What is equilibrium?
2	One student is given a larger cup, but has twice as much water in their beaker.	Observations:	Approximately how much water is in each beaker initially? Beaker 1: Beaker 2:
	Now two people try to empty water from their beaker into the other person's beaker using two different size cups. Each person must count to 1 second before pouring.	Observations: Draw what you observe:	Approximately how much water is in each beaker at the end? Beaker 1: Beaker 2: Did the water level change in these beakers from before? At what point was equilibrium reached in this demo?

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Additional Questions

1. Now that you have seen two demonstrations, what is your best definition of equilibrium. Do not look up the definition, write your best understanding of the meaning of equilibrium.

2. When was each of the above systems in equilibrium?

System 1 was in equilibrium when _____.

System 2 was in equilibrium when _____.

3. When the water levels were equal in demonstration 2, was the system in equilibrium? Explain why, or why not.