Name	Class	Date
Skills Worksheet		



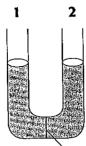
Science Skills

Predicting

Use the information below and the figure at right to answer questions 1-3.

EXPERIMENT A

A selectively permeable membrane separates the solutions in the arms of the U-tube shown at right. The membrane is permeable to water and to substance A but not to substance B. Forty grams of substance A and 20 g of substance B have been added to the water on side 1 of the U-tube. Twenty grams of substance A and 40 g of substance B have been added to the water on side 2 of the U-tube. Assume that after a period of time, the solutions on either side of the membrane have reached equilibrium.



Selectively permeable membrane

Read each question, and write your answer in the space provided.

1	How many grams of substance A will be in solution on side 1 of the U-tube? How many grams of substance A will be in solution on side 2? Explain.
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	How many grams of substance B will be in solution on side 1 of the U-tube? How many grams of substance B will be in solution on side 2? Explain.
•	What has happened to the water level in the U-tube? Explain.



Name	Class	Date
Science Skills continued		
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Use the information below	to answer questions 4-6.	
EXPERIMENT B		,
	blood cells is permeable to ppose that you have three f	
• Flask X contains a so	lution that is 0.5 percent N	aCl.
• Flask Y contains a so	lution that is 0.9 percent N	aCl.
• Flask Z contains a so	lution that is 1.5 percent N	aCl.
To each flask, you add red 0.9 percent NaCl.	blood cells, which contain	a solution that is
Dand and amortion and w	rite your answer in the spa	co provided
4. Predict what will happe	en to the red blood cells in	, nask A.

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5. Predict what will happe	en to the red blood cells in	ı flask Y.
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