



# Penny-Ante Equilibrium

# A Classroom Activity

### Introduction

What is equilibrium? What happens to the arrower of rescuents and products when equilibrium is reached? What if none reactants or products are added to a system already at equilibrium? In this activity, penties will be used as reactants and products in a reversible reaction to answer these it sestions and learn more about the fundamental nature of equilibrium.

# Concepts

- Reversible reactions
- Real Moriane
- · Equilibrium constant
- \* LeChäselier's principle

### Materials

Beakers or other large containers, 2

Small objects by g., permiss page is beauti, pages object bingo object, 60

# Safety Precautions

Although this activity is considered nonhazardous, observe all normal laboratory safety gastelines.

# Overview of the Activity

- Divide into groups of four. Rath member of the group chooses a defined role: "Reaction," "Product," "Monture" or "Recorder."
- Obtain a counted set of 60 small objects, brigi, permise, popris brack, paper clips! These will be used to represent reactants and products in a chemical reaction. Note: In these instructions, the objects used are penniss.
- Obtain two containers to hold the pennies. Label one container R, for reactants, and the other container P, for products.
- In Parts A-D, the pennies will be nerved in a series of steps between consumers R and P.

#### Procedure

#### Part A. What are the properties of a system at equilibrium?

- 1. Place 42 pennies in container R, none in container P.
- 2. In each proofer reserve, "Reactors," will nerve one-third of the perenies from container R to P, and "Product," will nerve one-culation of the permiss from container P to R. Note. In deciding how many permises to move, the natular may be transled up or down however, the approach to examine may be faster if the namelers are rounded up, so it is recommended that you mural all adoutations down to the reaces, which ramsler.
- The "Monitor" checks the number of pennies to be moved and gives permission for the actual "reactions" to take place.
- 4. The "Recorder" constructs a suitable data table and records results. The following information is needed; the institut number of permiss in R and P; the number of permiss that are moved out of each and the final number of permiss in R and P after the pennies have "resulted."
- In the first round, "Resultars" counts out 14 periods force third of 425 to rouse. "Product" advalates this one-cuarter of sero is zero and diseased many any periods in the first round.
- Repeat steps 2-5, and carry dut a sected round of percey "eractions" in both directions between R and P. Remender that one-third of the R perceios, but only one-fourth of the P perceios will react in each matric.
- Continue restring pennies back and forth until no further changes are observed in the number of reactavis and products.
- Calculate the national reactions and products (FVR), and enter the result in the data table.

# Part B. Does the position of equilibrium depend on the initial number of reactants?

- 9. Place 60 pennies in container R, none in container P.
- 10. Representate preserves in Part, A to recover the prevenes between R and P areil no further charges are observed in the number of reactable and products. Keep the fractions of permises that react the same as in Part A: '94 of R, 'a of P.
- Calculate the ratio of rescuence and products (D/R) and enter the result in the data table.

# **Penny Ante Equilibrium A Classroom Activity Answers**

**Brendan G. Carr** 

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