

Modeling Equilibrium Data Tables

Group 1. What are the properties of a system at equilibrium?

Transfer Round*	Reactant			Product			P/R at Equilibrium
	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	
0							
1							
2							
3							
4							
5							
6							

*A “zero” round (before any reaction begins) is included to use as a starting point when graphing the results, if desired.

Group 2. Does the position of equilibrium depend on the initial number of reactants?

Transfer Round*	Reactant			Product			P/R at Equilibrium
	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	
0							
1							
2							
3							
4							
5							
6							

*A “zero” round (before any reaction begins) is included to use as a starting point when graphing the results, if desired.

Group 3. Does the position of equilibrium depend on the starting point?

Transfer Round*	Reactant			Product			P/R at Equilibrium
	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	
0							
1							
2							
3							
4							
5							
6							

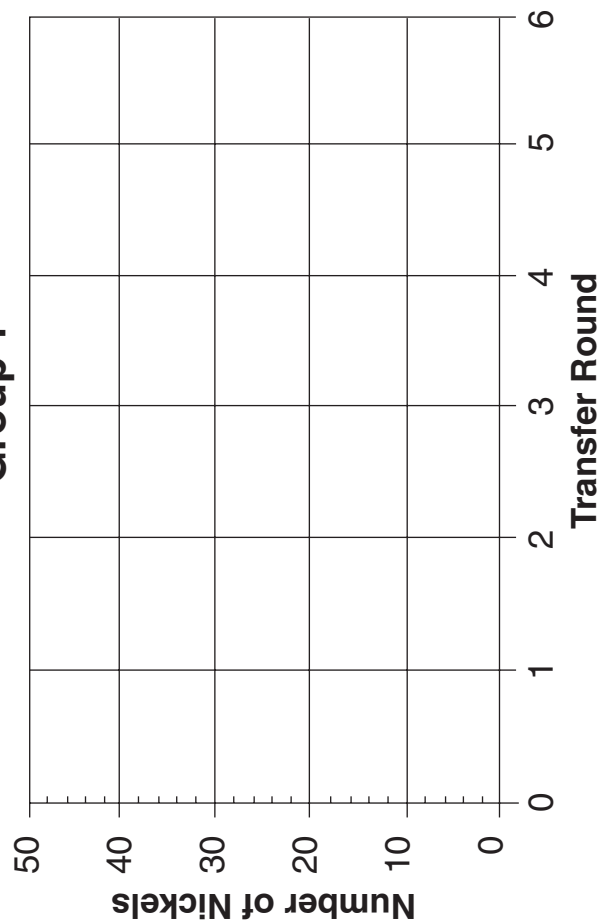
*A “zero” round (before any reaction begins) is included to use as a starting point when graphing the results, if desired.

Group 4. What happens when more reactants are added to a system at equilibrium?

Transfer Round*	Reactant			Product			P/R at Equilibrium
	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	Number of Nickels (initial)	Number of Nickels Moved	Number of Nickels (final)	
0							
1							
2							
3							
4							
5							
6							

*A “zero” round (before any reaction begins) is included to use as a starting point when graphing the results, if desired.

Reversible Reaction $R \rightleftharpoons P$ Group 1



■ = Reactants
▲ = Products

Reversible Reaction $R \rightleftharpoons P$ Group 3

