

INTRODUCTORY DEMONSTRATIONS

PART A: DUELLING AQUARIA

1. Describe the original situation.

2. What are “the rules”?

3. Describe the situation, which is eventually reached.

4. What does the demonstration illustrate about most physical and chemical processes?

5. Define the term “dynamic equilibrium”.

PART B: THE GREAT MACARONI EXCHANGE

1. Work in pairs. Give person “R” 100 pieces of macaroni and the other partner “P” none. Begin a series of transactions, in which each partner gives a constant fraction of his or her macaroni to the other person. Select your own fractions from 0.1 to 0.9. Both partners do NOT need the same fractions. Round off to the nearest whole macaroni, and do not break the macaroni.
2. Record in the following chart the number of macaroni each person has left **after** the transaction. Continue until you see a reason to stop.
3. Complete the graph in the space provided. Draw two curves, one for “R” and one for “P”.
4. At the bottom of the page state your conclusions.

OBSERVATION CHART

Transaction	Macaroni of “R”	Macaroni of “P”
0	100	0
1		
2		
3		
4		
5		
6		
7		
8		
9		

Number
of Macaroni

Transaction #