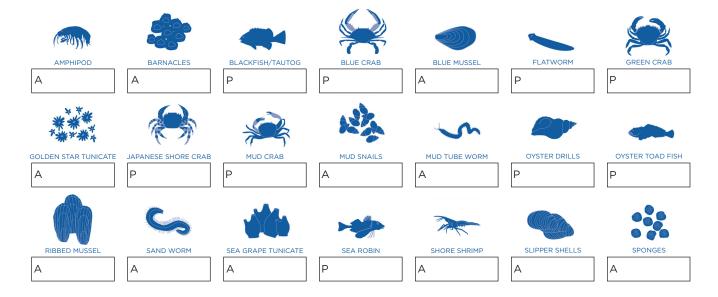
TRAWLING THE HARBOR SIMULation

Oyster Associates & Predators



- 1. Using your instruments, "trawl" your water tray to remove one associate/predator card. (Organism A)
- 2. Roll the dice and add your results together to determine the quantity of the organism you've found in your simulation.
- 3. Notate that quantity in the corresponding associate/predator box in the chart above.
- 4. After each person at your table has had a chance, repeat steps 1–3 for a second associate/predator card. (Organism B) NOTE: If you get the same quantity from your dice roll, roll them again until you get a different number.
- 5. Create a ratio of *Organism A* to *Organism B*, and write it below.

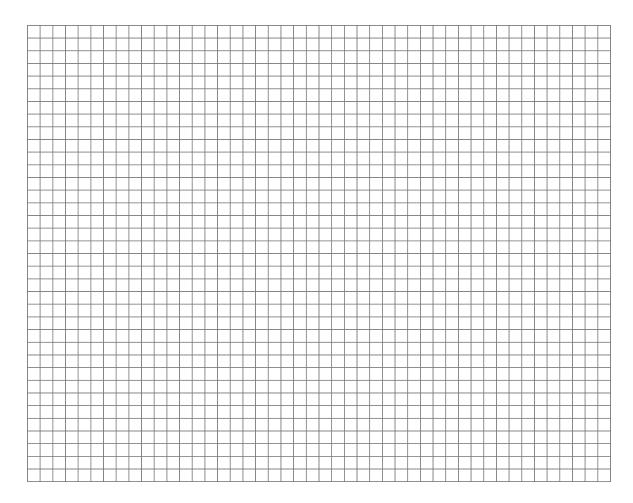
6. What is the unit rate of *Organism A* per one *Organism B*? Write it below.



7. Assuming that the relationship is proportional, complete the data table below.

ORGANISM A											1
ORGANISM B	0	1	2	3	4	5	10	15	50	100	

8. Make a graph of your data on the coordinate plane below. **NOTE:** Remember to label your axes and mark out an appropriate scale for each of your axes.



9. Create an equation based on the relationship represented in the table and the graph. Remember to notate what each variable means in your equation.



1.	This activity is a simulation and doesn't accurately represent what you most likely will encounter in an actual field with our restoration station. At the station, we will be collecting lots of data including quantities of the organisms we find there. Once we collect that data, how can we use it to make our simulation activity more accurate as if it's a truer sample of the population?
2.	Try altering the instructions so that in your ratio you are comparing associates to predators. Write your details below. Attach a separate sheet if you need more room.
3.	Investigate how you can turn the exploration into a game. Write your details below. Attach a separate sheet if you need more room.

HOMEWORK: ADOPT AN ORGANISM

"Adopt" an organism from your exploration. Research it and create a onepage fact sheet with drawing to be presented to the class and then added to a classroom "handbook" of harbor inhabitants. This book will serve as a resource to current and future students.

