

Lesson 1 - Student Activity #1 Guide

Papercatchers

Name:

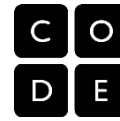
Date:

Instructions:

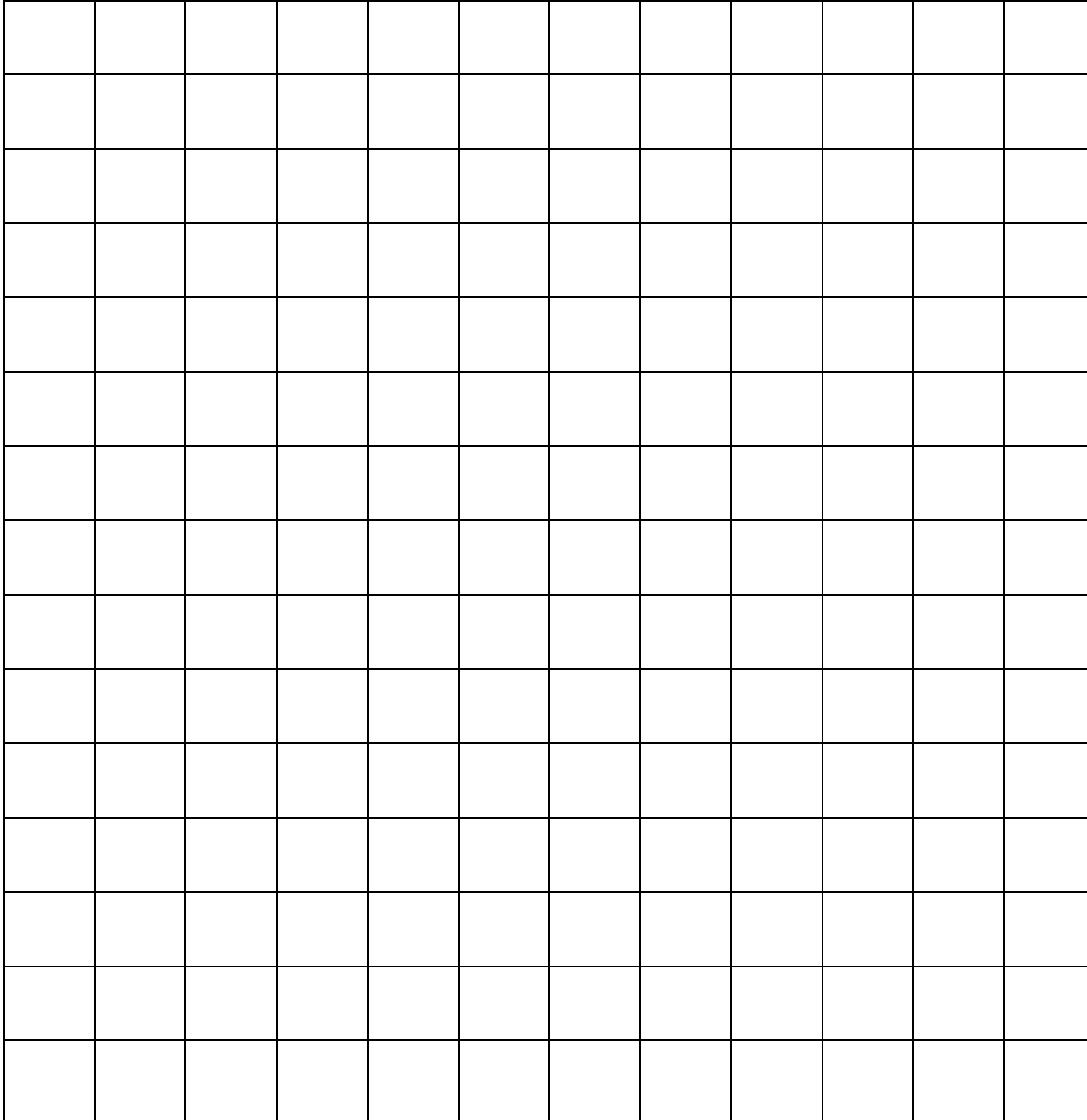
- 1) Copy the data collected during the Papercatchers activity into the table below.
 Note that you may not be able to complete all 10 generations in class.

Generation	Round 1 – no paper		Round 2 - newspaper		Round 3 – sheet paper
	Population size		Population size		Population size
1	1		1		1
2					
3					
4					
5					
6					
7					
8					
9					
10					

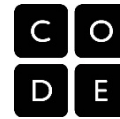
- 2) In this simulation of an ecosystem, what were the independent and dependent variables?



- 3) Using different colored pens or markers for each Round, create line graphs of the populations over time in generations. Make note of any carrying capacity or limits on growth in each round.



Remember to label your axes.



- 4) Predict the population sizes in each round (no paper, newspaper, sheet paper) if we could continue for 10 generations. (Remember that each new generation occurred when the current population did the ball toss and either died or brought another person in.)

Generation	Round 1 – no paper		Round 2 - newspaper		Round 3 – sheet paper
...	Population size		Population size		Population size
10					

- 5) Describe how you made the prediction using mathematical and scientific reasoning.