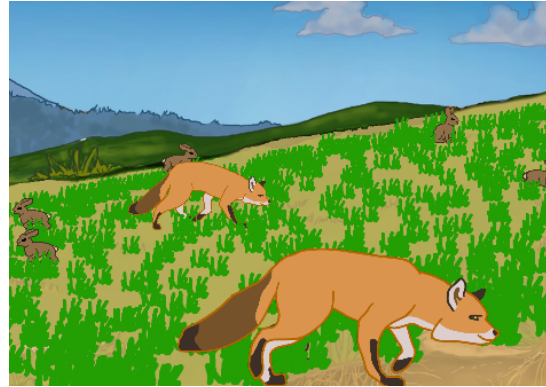


2.1 Predictions and Planning Tool for the Meadow

Simulation: How much fox organic matter do *you think* the meadow can support?

You will use an online simulation to investigate changes in populations of grasses, rabbits and foxes in a meadow ecosystem over a 100-year period.



The image shows how grass, rabbits, and foxes are represented in the simulation.

Rather than trying to count plants and animals, you will predict the total amount of organic matter in each population.

1. Your predictions. If you set the initial organic matter of the grass, rabbits, and foxes each to 500, what do you predict the organic matter in each population will be after 100 years? Explain your reasoning on the lines below.

	Initial Settings	100 Years Later
Foxes Organic Matter		
Rabbits Organic Matter		
Grass Organic Matter		

2. Your plans for the largest fox population. You will use the simulation to determine the maximum organic matter in foxes that the meadow ecosystem can support. What settings that will lead to the highest possible fox organic matter after 100 years? Explain your reasoning on the lines below.

	Initial Settings	100 Years Later
Foxes Organic Matter		
Rabbits Organic Matter		
Grass Organic Matter		
