

Name:

Date:

Curb the Epidemic!

Worksheet

1. Input Values:
 - a. % of people vaccinated: _____
 - b. Population Density: _____
 - c. Population mixing: _____
2. Briefly explain the reason(s) for choosing these values:

3. Simulation results:

Simulation #	Death Toll	Sick Days

Website: *Lab Disease: Vaccination*

<https://www.learner.org/courses/envsci/interactives/disease/disease.html?initLesson=1>

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Extra Credit

1. Which input values would be least effective to prevent infection? Please explain your choice.

2. With this least effective choice of input values, perform 10 simulations and compute the average number of infected individuals.

Simulation results:

Simulation #	Death Toll	Sick Days

3. Average number of infected individuals: _____

4. Is this number larger than the one computed previously for your vaccination strategy that was attempting to minimize the number of infected individuals?