

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_



## Agent Impact

**STEM Sims**

### Lesson 3: Chemical Warfare

Chemical warfare is the use of weapons with chemical agents that have toxic properties. Are you ready to see the effects of chemical warfare?

#### Doing the Science

1. Start the Agent Impact Simulation by clicking on the “Sim” tab.
2. Click on “Low” for the population density.
3. Click on “Chemical” for the type of agent.
4. Click on “Min Impact” for the impact.
5. Click “Start” to begin the simulation of the chemical warfare.
6. After the effects of the agent have worn off, record the casualties in Table 1 below for low population density and in Table 2 for high population density.
7. Repeat steps 2 - 6 except with “Max Impact” for the impact instead of “Min Impact” in step 4.
8. Click on “High” for the population density.
9. Repeat steps 3 - 7 for the high population chemical warfare.

**Table 1. Low Population Density.**

	Hospital	Clinics	Drug Stores	Morgue
Minimum Impact				
Maximum Impact				

**Table 2. High Population Density.**

	Hospital	Clinics	Drug Stores	Morgue
Minimum Impact				
Maximum Impact				

#### Do You Understand?

1. Which agent (radiological, biological, or chemical) resulted in the most casualties in the shortest amount of time?
2. Why do both minimum and maximum impact chemical attacks last 36 hours?