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

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**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. Select the Simulation tab to open the Agent Impact simulation.

2. Select “Low” for the population density.

3. Select “Chemical” for the type of agent.

4. Select “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. Select “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?