

## □ Reading and Questions

In the previous lesson, you explored hunger and the body's response to it. Before you learn about the impact of chemical agents on the body during this lesson, take time to complete the reading at the following web link and consider dietary impacts on the body. Then, answer the questions.

### Web Link:

<https://www.movingbeyondthepage.com/link/9212/>

1. What statistic does the article give about obesity in people ages 2-19?

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2. Which types of foods and drinks seem to be the most likely to cause issues with health?

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3. What should people eat more of to improve their long-term health?

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## Lesson 5: Exposure and Feedback (2 Days)

### Getting Started

#### ? Big Ideas

- What variables influence stability or change within biological systems?



#### Facts and Definitions

- A **chemical agent** is a chemical compound that is dangerous to humans.
- **Cytotoxic** describes an agent that destroys or limits the activity of cells.
- A **dose** is a measured amount; with medication, it is an amount administered once or at specific intervals.
- To **incapacitate** is to deprive someone of power or effectiveness.
- **Lachrymatory** describes an agent that causes the eyes to produce tears.
- **Potency** is the strength of something.
- **Pulmonary** relates to the lungs or describes an agent that affects the lungs.
- **Toxicity** is the degree to which something is poisonous.
- A **vesicant** is an agent that causes blisters.

#### ⦿ Skills

- Describe factors that determine the effects a chemical has on a living organism including exposure, potency, and dose and the resultant concentration of chemical in the organism. (S)

### Reading and Questions (Answers)

1. What statistic does the article give about obesity in people ages 2-19?
  - One in three people in that age group is overweight or obese (and rates have tripled over the last three decades).
2. Which types of foods and drinks seem to be the most likely to cause issues with health?
  - Foods and drinks high in sodium, sugar, and saturated fats.
3. What should people eat more of to improve their long-term health?
  - Fruits, vegetables, whole grains, and foods with calcium and fiber