

# Masters

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## **Lesson 1, *Chemicals, Chemicals, Everywhere***

### **Activity 1: What Is a Chemical?**

- Master 1.1, *Item Cards* .....classroom set
- Master 1.2, *Periodic Table of Elements* .....transparency
- Master 1.3, *Elemental Composition of the Human Body* .....transparency

### **Activity 3: Case Studies of Routes of Exposure**

- Master 1.4, *Questions for Case Studies* .....transparency
- Master 1.5, *Case Studies of Routes of Exposure* .....student copies

## **Lesson 2, *The Dose Makes the Poison***

### **Activity 1: Dose and Concentration**

- Master 2.1, *Opening Questions* .....transparency

### **Activity 2: Planning the Seed Investigation**

- Master 2.2, *Making Solutions for Toxicity Testing* .....team copies

### **Activity 3: Setting Up the Seed Investigation**

- Master 2.3, *Toxicity Testing on Seeds* .....student copies

## **Lesson 3, *Dose-Response Relationships***

### **Activity 1: Graphing the Response to Chemical Dose**

- Master 3.1, *Dose-Response Curves* .....transparency
- Master 3.2, *Graph Paper* .....student copies

## **Lesson 4, *Individual Responses Can Be Different***

### **Activity 1: Different Doses for Different People**

- Master 4.1, *Acetaminophen Dosage Chart* .....transparency

### **Activity 2: A Poisonous Dose?**

- Master 4.2, *A Poisonous Dose? The Case History* .....transparencies
- Master 4.3, *A Poisonous Dose? The Problem* .....student copies

### **Activity 3: The Chemical Caffeine: How Do You React?**

- Master 4.4, *Parent Letter* .....student copies
- Master 4.5, *The Chemical Caffeine: How Do You Respond?* .....student copies

## Chemicals, the Environment, and You: Explorations in Science and Human Health

### Lesson 5, *What Is the Risk?*

#### Activity 1: People at Risk

- Master 5.1, *Risk Assessment and Management* .....transparency
- Master 5.2, *Minamata Disease* .....student copies

### Lesson 6, *Environmental Hazards*

#### Activity 1: The Field Trip

- Master 6.1, *Heads or Tails?* .....student copies
- Master 6.2, *Choice Cards* .....classroom set
- Master 6.3, *Fact Sheets on Chemicals* .....classroom sets