Lesson 2: Pesky Pests and Household Hazards

Poster #1
Number of humans compared to number of insects:

humans = 6,913,811,533

insects = 10,000,000,000,000,000,000,000
Steps to Get Rid of Pests

#1 Identify Pest

#2 Take Away Food

#3 Take Away Water

#4 Take Away Shelter

#5 Monitor the Situation
Composition of Air

- Nitrogen: 78%
- Oxygen: 20%
- Water Vapor: 1%
- Inert Gasses (mainly argon): 0.97%
- Carbon Dioxide and other gases: 0.03%
The Pathology of Asthma

Normal airway

Asthmatic airway

Asthmatic airway during attack

Relaxed smooth muscles

Wall inflamed and thickened

Air trapped in alveoli

Tightened smooth muscles
Asthma Triggers

- Dust Mites
- Pollen
- Mold
- Pet Dander
- Cockroaches
- Cold Air
- Exercise
- Secondhand Smoke
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Photographs courtesy of NASA (www.nasa.gov)
Our Solar System

Mercury

Venus

Earth

Mars

Jupiter

Saturn

Uranus

Neptune

Pluto
Greenhouses
Most heat and energy are absorbed by the Earth, crops, and people. Some heat is absorbed by the atmosphere. Most heat and energy are absorbed by the Earth, crops, and people.
Water Cycle

- **Evaporation** from lakes, rivers, oceans
- **Condensation**
- **Precipitation** as rain, snow, hail, fog
- **Runoff and Groundwater**
What percentage of our bodies is water?

- 33%
- 95%
- 60%
Water Treatment Plants
Water Treatment Cycle

Sedimentation
Heavy particles settle to the bottom; the clear water moves on to disinfection.

Coagulation
This process removes dirt and other particles suspended in the water; chemicals are added to attract particles, which then become heavy enough to sink.

湖或水庫

Filtração
水通過由沙子、砂或木炭層組成的過濾器，去除更小的微粒。

Disinfection
Chlorine and other disinfectants are added to kill microorganisms.

Storage
Disinfection occurs in a closed tank or reservoir before water flows to user.
How much water does the average family of four use every day?

- 50 Gallons
- 100 Gallons
- 400 Gallons
Lesson 8:
Sustainable Eating, Healthy Foods, and Community Gardens

Poster #1
Lesson 8:
Sustainable Eating, Healthy Foods,
and Community Gardens

Poster #2
Map of the World
Community Gardens
healthier community, we pledge to: our actions will have a greater and more lasting impact. In order to create a
that the environment is safe, clean, and healthy for everyone. If we join together,
the world we share is interconnected and we all have to take action to make sure

Group Pledge

Recipes for Healthy Kids and a Healthy Environment