

Waste, Environment and Health



Role of Education in Environmental Management

- Awareness-raising
- Information Dissemination
- Communication and Clarification
- Change in Values, Attitude & Lifestyles
- Change in Consumption Patterns

Concept of Environmental Stewardship

- Stewardship of the environment refers to protecting the environment through recycling, conservation, regeneration, and restoration.
- It means taking responsibility for our choices.
- The responsibility for environmental quality should be shared by all those whose actions affect the environment.

Defining Environmental Stewardship

- Organizations or individuals putting systems in place that will enable them to:
 - Use resources efficiently
 - Reduce waste and minimize on the negative impacts on the environment
 - Translate reduced consumption and waste into financial savings
 - Provide a healthy, more efficient and effective working, living or recreational environment

Principles of Environmental Stewardship that Can Impact on Health

Resource Conservation – making the most efficient use of resources (materials, energy and water) through:

- Energy Efficiency and Conservation
- Water Efficiency and Conservation
- Solid Waste Management and Conceptualizing Waste as a Resource

These measures reduce cost, reduce stress, protect the environment and health

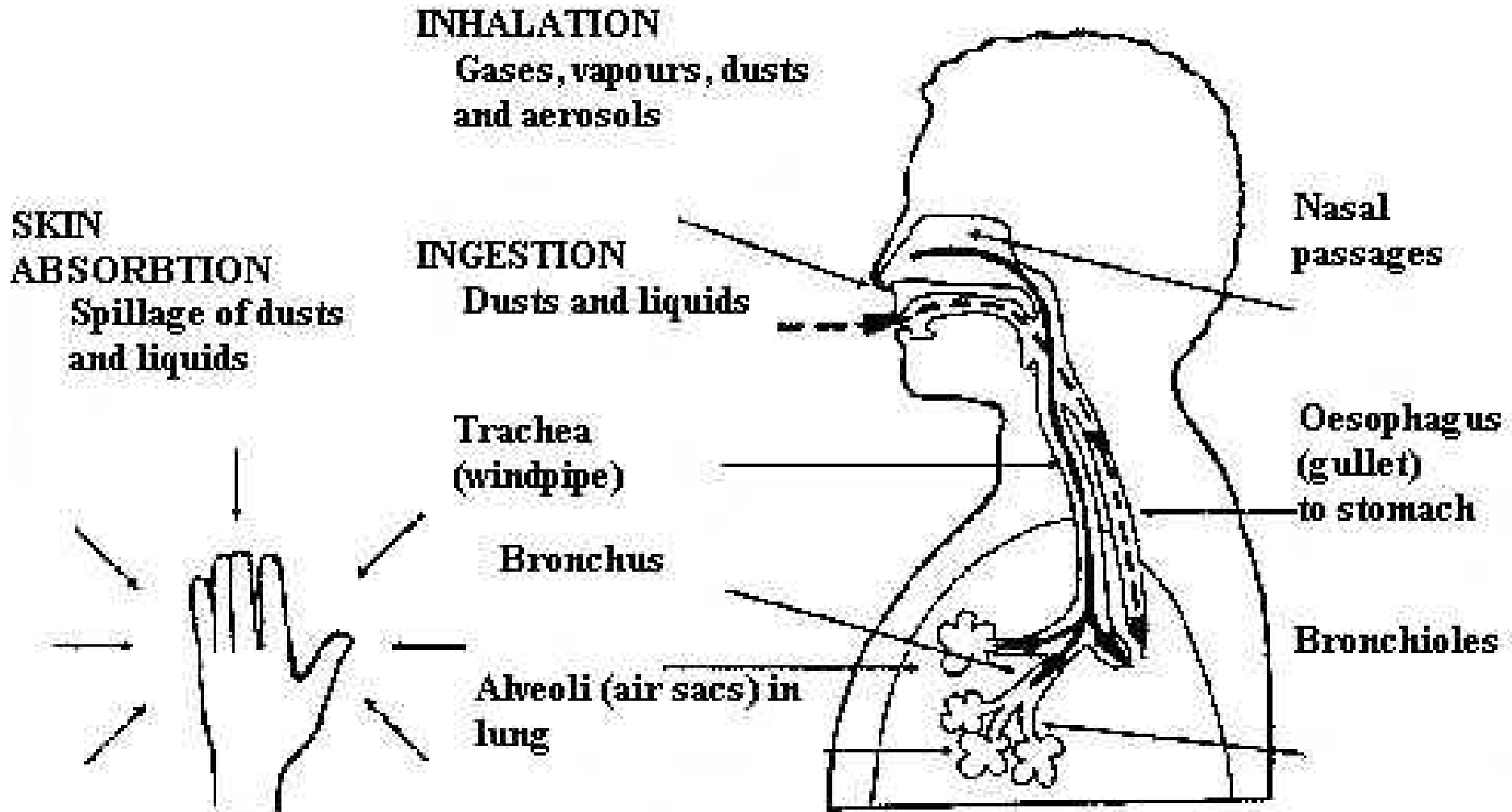
CHEMICALS AND HEALTH

Chemicals are a part of everyone's life.

- Five to seven million different chemicals known
- Many chemicals cause harmful reactions in humans and animals because of their nature, toxicity, and type of application.

ROUTES OF ENTRY

Different routes of entry by which chemicals enter the body



Effects of Dust on the Body

Dust

Dust represents tiny particles of solids. The main danger of harmful dust is that it can be:

- Trapped in the lungs when inhaled
- Absorbed into the bloodstream and travel to other parts of the body causing damage
- Dust particles can damage the eye
- Under certain conditions dust can explode. An example of this is an explosion in a grain silo or flourmill

Some Sources of Hazardous Chemicals

- Used oil
- Household hazardous waste
- Mercury lamps and devices
- Batteries
- Generator Hazardous waste
- Agricultural run-off

Environmental Stewardship

- Protection of the environment through the **three (3) R's**
 - **Reduce**
 - Re-use
 - Recycle

REDUCE SOLID WASTE!

- Use less disposable material
- Compost organic scraps





Building a Compost Pile

- Composting can be done successfully in a bin or open pile.
- In the bin, mix in equal proportions, carbon-rich “browns” such as wood chip or dried leaves with nitrogen-rich material, “greens” such as grass clippings, vegetable waste, kitchen waste or farm animal manure. **Avoid** meat, fish, bones, dairy products and pet litter, non-biodegradable material such as plastic, glass or metal.
- Shake bin or turn the mixture
- Add a layer of soil
- Add enough water to moisten the mixture but do not make it waterlogged
- Cover the bin and wait. You may shake or turn periodically to speed up the process
- Compost is finished when it is a dark, rich colour, crumbles easily, and you are unable to pick out any of the original components. It should also have an earthy smell.

RECYCLE!

- The process of changing a product into a new product
 - PLASTIC
 - PAPER
 - ALUMINIUM CANS
 - GLASS

ONLY works if you give the items to a RECYCLER

RECYCLERS in Jamaica

- Protect the Environment Trust
 - 24 Haining Rd, Kgn 5 (75-GREEN)
- Sweet Craft Limited
 - 2-2B Shortwood Road, Kgn 8 (931-9744)
- Ace Recycling Jamaica Ltd.
 - 78 Montgomery Ave, Kgn 10 (481-9586)
- NuLife Recycling
 - Rohan Brown (901-7680)

Benefits

- Financial savings
- Improved health
 - Clean potable (drinking) water
 - Clean bathing (swimming) water
 - Improved air quality
- Less solid and liquid waste leading to....
- An improved environment and a cleaner harbour

Some Resources Available

- Composting booklet
- Starting an environmental Stewardship programmes
- Kingston Harbour Education Modules
- PPT Presentations
- Other resources