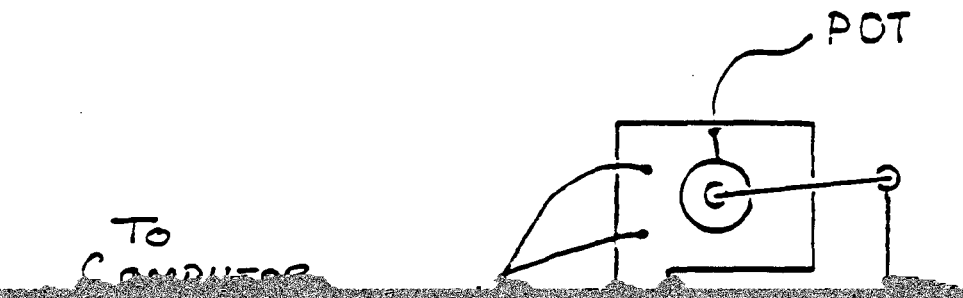
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To

LEARNING ACTIVITY BRIEF

# CAREER INFORMATION SHEET

Career Title:

**Biotechnical Specialist**

Description of Career Responsibilites

# HUMAN PHYSIOLOGICAL MONITORING

Suggested Test Questions:

1. Pulse and heart rate are the same
   ( T )

2. Select the choice that does not effect pulse:

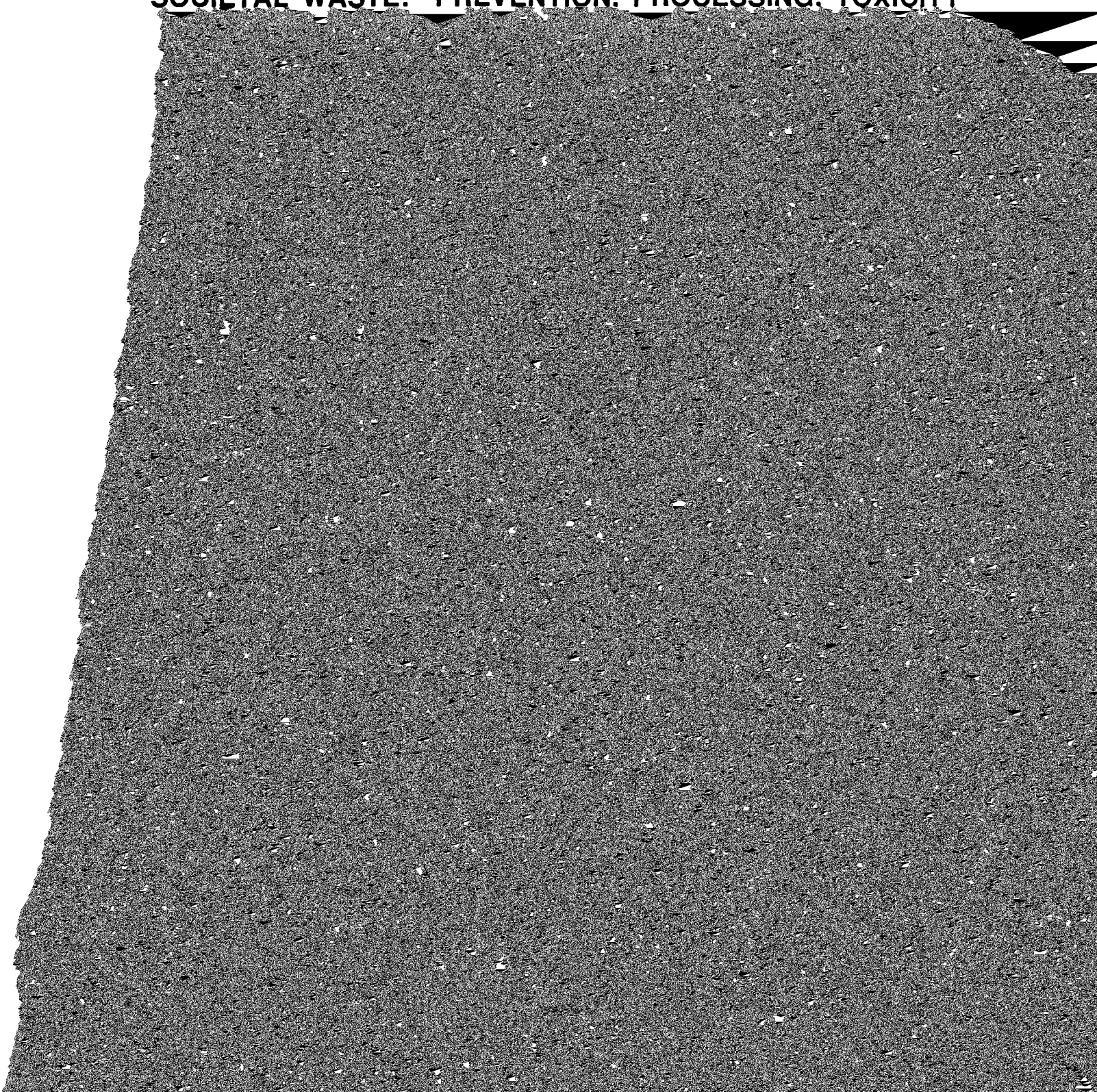
   a) Smoking
   b) Overweight
   * c ) Television
   d) Exercise

# LEARNING ACTIVITY BRIEF

# TERMINOLOGY

1. ergonomics
2. applications
3. human factors engineers
4. usability
5. utilization
6. analysis
7. design
8. evaluation
9. function
10. form
11. optimize
12. paraplegic
13. hemiplegic
14. quadraplegic

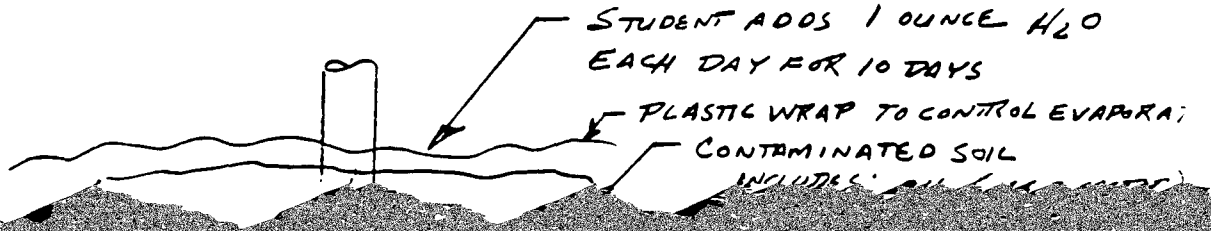
# SOCIETAL WASTE: PREVENTION, PROCESSING, TOXICITY



# INTRODUCTORY STATEMENT

This unit of instruction contains model lesson plans and activities to focus on the subject

# MODEL LANDFILL



# WASTE TREATMENT DATA SHEET

STUDENT'S NAME

# DAILY LESSON PLAN

Topic

**Processing Societal Waste: Biodegradation, Landfill, Incineration,**

Incineration -- the burning of waste products in an incinerator.

1. Municipal applications - garbage, medical products and by-products

Summary Questions

1. Describe two methods of safety dealing with waste products produced by society.
2. How is the incapsulation method different from the landfill method in dealing with waste products?
3. What is the role of microorganism in biodegradation?

Assignments

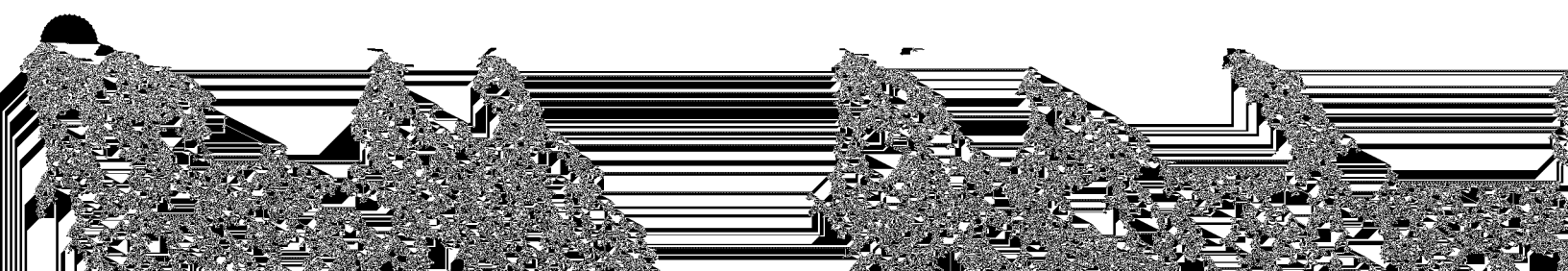
None

Materials Needed

- sandpaper
- water containers
- coffee filter
- diagrams

Outside References

Hazardous Materials Control periodical; HMCRI, P. O. Box 8905, Boulder, CO 80328-8905.



# Career Awareness

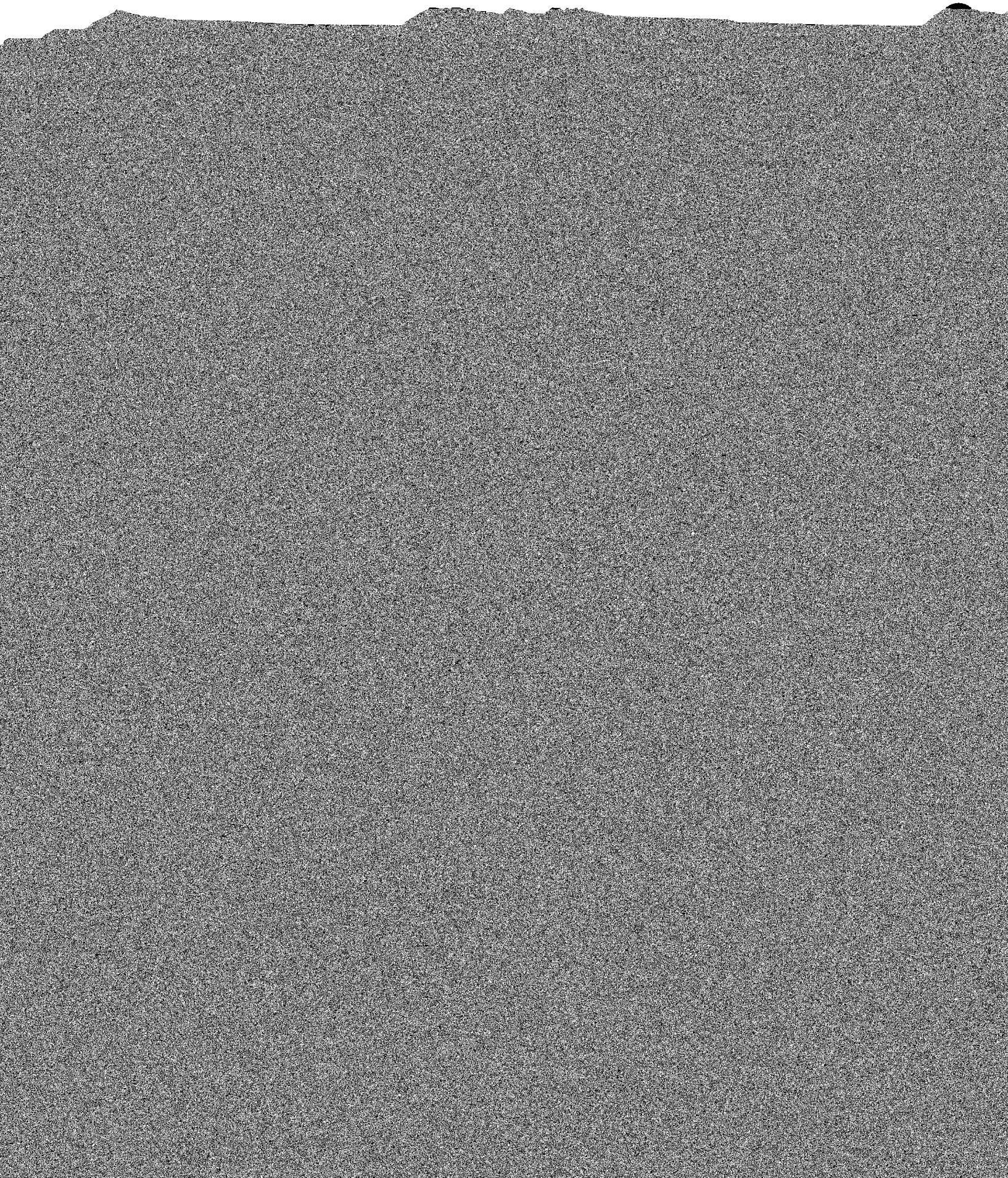
## Environmental Technology

# REQUIREMENTS

# REQUIREMENTS AND PLUSSES

# HOW DO I BECOME ONE?

| | |
|---|---|
| **Technician** | **2 yrs. College**<br>**4 yrs. College** |
| **Bachelors** | **4 yrs. College** |
| **Masters** | **4 yrs. College + 2 yrs. Specialty** |
| **PhD** | **4 yrs. College + 4 yrs. Specialty** |



6. Stages of growth.
7. Advantages and disadvantages of tissue culture.

# DAILY LESSON PLAN

Assignments

Find a reference to tissue culture or animal cloning as it is taking place currently in society.

Read pages 18 - 22 of *Cloning and Genetic Engineering: Social and Legal Implications*. Prepare

# DAILY LESSON PLAN

Topic

**Plant Tissue Culture Stage III (Rooting Phase)**

Syllabus Connections

T-3 TLA Plants with One Parent
T-5 How Technology Affects People and the Environment
T-6 Choosing Appropriate Resources for Technological Systems

# CAREER INFORMATION SHEET

Career Title:

**Biological Sciences/Biotechnology**

Description of Career Responsibilities

The biological sciences are concerned with research in the reproduction, growth and development, structure, life processes, behavior, and classification of living organisms. Also

| | |
|---|---|
| In vitro | Literally, "in glass," e.g., a test tube. |
| In vitro | Propagation of plants through tissue culture propagation methods. |
| Medical asepsis | Rendering an object clean, e.g., handwashing. |
| Microorganisms | Microscopic living bodies not seen by the naked eye. |