VIET NAM NATIONAL UNIVERSITY OF AGRICULTURE

FACULTY OF ENVIRONMENT

DEPARMENT OF ENVIRONMENTAL MANAGEMENT

INTRODUCTION OF FIELD TRAINING AREA

CONSTRUCTION PROCESS

Region assigned

Construction of fences, drainage systems

Designing and building the model

Attaching the sign for the model

To take care and operate the model

INTRODUCE MODEL

- **Areas:** More than 400 m^2
- **Targets:**

○ Demonstration of some experimental models of agricultural and rural waste treatment.

○ Building scientific research locations and graduation practice for students.

○ Integrating practical teaching content for students

RESULTS

- **The designed works:**
  - Banana circle for treating organic waste : 02
  - Biological filtration system to treat livestock wastewater : 01
  - The earthworm raising house for treating organic waste : 01
  - VAC model for studying nutrition circulation : 01
  - Potted experiment tank : 01
- **Students join the model: 20 – 30 students**

Potted experiment tank

- **Target**
  - Designing studying pots
  - To track laboratory scale research
- Ex:

Waste water treatment after biogas Using coal slag

Banana circle

- **Targets**
  - Treatment of organic waste
  - Treatment of organic agricultural by-products
- **Linking effect in the model**
  - Treatment of organic by-products such as grass, twigs, and organic waste generated on the model
  - Provide organic material (manure within the banana circle) to plant trees on the model

Biological filtration system

- **Target**
  - Treatment of domestic wastewater
  - Treatment of livestock wastewater
- **Linking effect in the model**

Provide nutrients (liquid) for plants on the model

MODEL OF ORGANIC VEGETABLES

- **Targets**
  - Experiment to grow vegetables with organic materials
  - To provide green vegetables
- **Linking effect in the model**
  - Consumption: Worms, organic matter from banana circles, wastewater after biological filtration system
  - Supply organic material (Plant Verification) for banana circle

WORM FARM

- **Targets**
  - Treatment of livestock wastewater
  - Handling feces of buffaloes, cows and pigs
  - Handling organic waste

- **Linking effect in the model**
  - To supply organic fertilizer, worm fluid for plants
  - To supply vegetable planting materials
  - To provide worms to feed the fish

VAC SYSTEM

- **Targets**
  - Parts: Fish pond, worm farm and fruit garden
  - Research on nutrient rotation
- **Linking effect in the model**

✓ Pond: Providing water for the garden

✓ Worm farm: Supply manure for plants, worms for fish in ponds.

✓ Garden: Supplying organic matter for worms and fish.

OBJECTIVES TOWARD

Theory

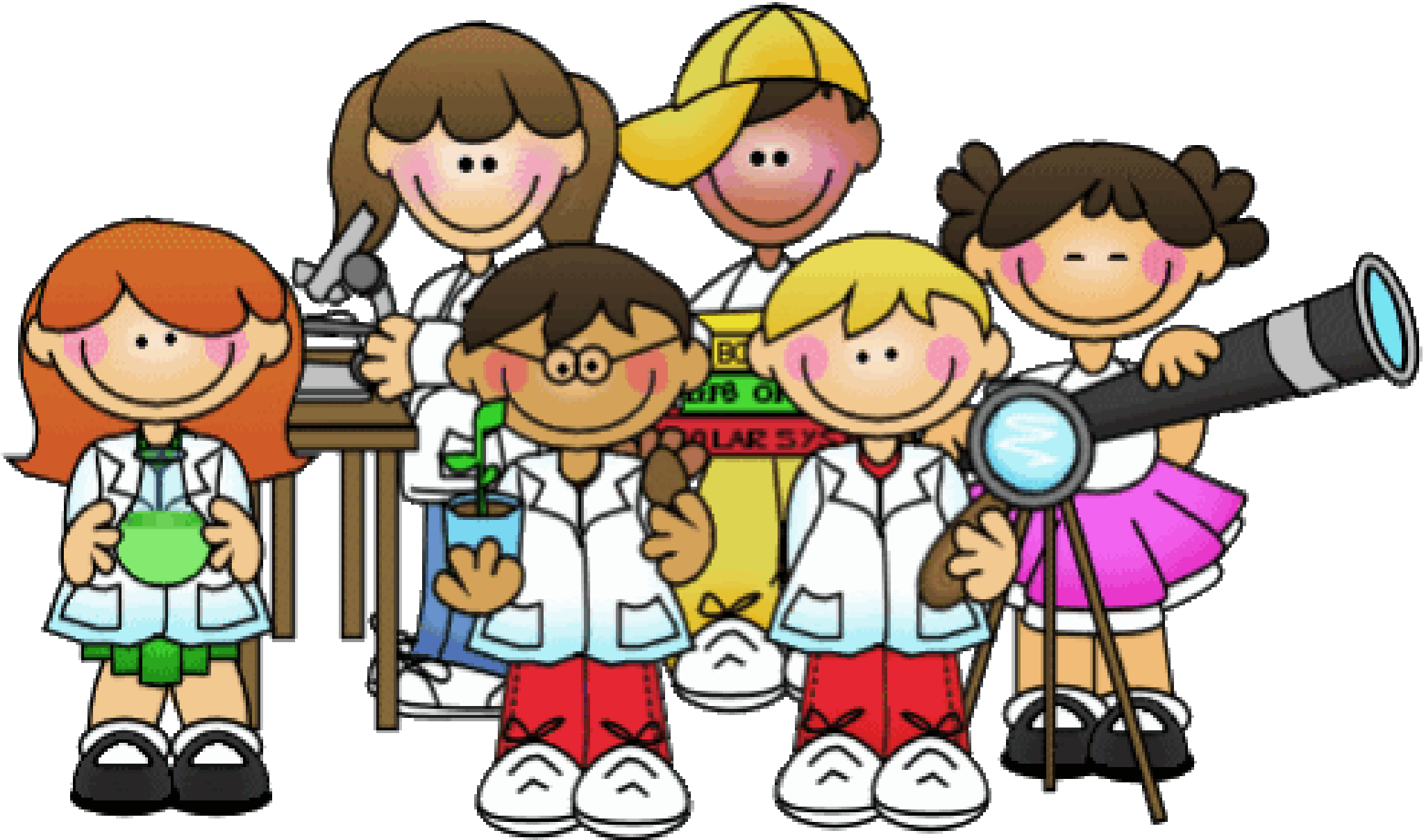
Fractice

Experimental design

Lab

Discuss the results

Compilation of documents

Teaching materials

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