MANUFACTURING SHOES FROM PLASTICS AND OTHER NON BIO-DEGRADABLE WASTE MATERIALS IN OUR ENVIRONMENT

The project will mainly involve collecting materials considered as waste in the environment and synthesizing them basing on their different properties from using MATERIALS IN CHEMISTRY to make properly fitting, flexible and waterproof shoes. This project was inspired by the stories that friends told us about people in their villages suffering from different diseases in their feet like jiggers (tungiasis) and anaemia from hookworm infestation. The source of information on these diseases is the *World Book Encyclopedia*.

The purpose for this project is to provide people with shoes, reducing the risk and number of people that acquire feet diseases, through sensitizing and availing them with information on how to locally make affordable shoes using readily available materials in our environment.

The main objectives of this project are to;

1. Reduce the cost of production of shoes through suggesting shoe production using readily available materials in the environment and make handmade shoes locally which are available to the financially disadvantaged.
2. Reduce the number of people faced with feet diseases like jiggers, cracked feet and anaemia through hookworm infestation by availing cheap affordable shoes to ensure people keep their feet covered.
3. Make use of waste materials that are disposed of into the environment, causing pollution when burnt.
4. Make shoes affordable and accessible to people, to use them to prevent their feet from acquiring diseases and ensure proper hygiene and care for feet.

MATERIALS

- Polythenes will be used because of their texture to act as a surface to provide comfort.
- Rubber tyres will be used to make the sole because it is durable.
- Colored straws will be used as straps to hold down the foot since they can be melted to any shape.
- Leather and sponge from old mattresses for comfort.
- Glue to hold the shoe parts together.

BUDGET

ITEM	UNIT	UNIT COST (UGX)	QUANTITY	TOTAL (UGX)
GLUE	TUBE	1,000	8	8,000
COLOURED STRAWS	PACK	2,000	1	2,000
			TOTAL	10,000

PROJECT WORK PLAN

DATE	ACTIVITY	PERSON IN CHARGE	COST OF ACTIVITY	PURPOSE
05/08/2024	Research on how feet diseases affect people	Mwesigwa David	Internet and library research	To know causes of feet diseases and how they affect people.
09/08/2024	Research on shoe in designs	Ssemwanga Alvin	Use of an electronic device and internet cost	For authenticity, originality and uniqueness of the project.
18/08/2024	Research on on prevention on feet diseases and the number if people affected	Ssempala Julius	Library research and internet research	To find out the number of people that are affected and to make statistical diagrams to derive production plans for the shoes.
18/08/2024	Research on pollution levels in UG and different waste materials in UG.	Olango Andrew	Reading newspapers and Internet research	To find the availability of raw materials for production of shoes.
23/08/2024	Consultation and carrying out surveys.	All group members	Interacting	To know shoe trends and likes and dislikes.
30/08/2024	Compile all research done by group members and put it in writing and type it.	Ryan Tumusiime (Group secretary)	Compiling research work. Writing and typing	To put research work in summary.
7/09/2024	Acquisition of project materials.	All group members	Purchase of materials	To prepare to embark on project implementation.
9/09/2024	Assembling the shoe and testing sample	All group members	Teamwork and coordination	To come up with final product

11/09/2024	Group meeting	Kimbugwe Hector (GROUP LEADER)	Interacting	To discuss project implementation and production process.
13/09/2024	Write and submit project report	All group members	None	Give remarks about the final product.

The project will take a time span of 40 days from 5/08/24 to13/09/24

DISCIPLINES THE PROJECT WILL INTEGRATE ARE;

1. **ICT**: Use of the internet to make research about foot diseases, shoe designs and trends to make the shoe attractive.
2. **CHEMISTRY**: From the topic of using materials which we shall use to make shoes.
3. **CRE**: From The topic human dignity where personal hygiene is learnt and it is promoted through putting on shoes.
4. **BIOLOGY**: From the topic soil conservation we are protecting the soil from pollutants like plastics by removing them and using them to make shoes.
5. **MATHEMATICS**: The use of calculations and measurements to make the shoe.
6. **GEOGRAPHY**: From the topic climate change, we shall look to curb the effects accompanied by emission of greenhouse gases in the atmosphere.
7. **PHYSICAL EDUCATION**: From the topic personal hygiene it is promoted by keeping the feet clean and protected from bacteria through making shoes.
8. **ART AND DESIGN**: This is seen in decorating the shoes.

CROSS CUTTING ISSUES THE PROJECT INVOLVES

- Creation of employment opportunities to people in the shoe making industry and hence can bring income to people.
- Use of waste materials and reduction of pollution in the environment
- Promotion of personal hygiene since the shoes are cheap and keep one clean

SKILLS THAT WILL BE ACHIEVED IN THE MAKING OF THIS PROJECT

- Critical thinking and problem solving will be used as our project looks to solve the problem of foot diseases in the community.
- Creativity and innovation will be achieved in the making of this project regarding the originality of our project.
- Making and interpretation of statistical and mathematical diagrams is an additional skill as diagrams like pie charts, line and bar graphs were used to identify problems regarding foot diseases.
- Use of ICT and technology through research and making the project.

GROUP MEMBERS

Kimbugwe Hector (Group Leader)

Ryan Tumusiime (Group Secretary)

Ssemwanga Alvin

Ssempala Julius.E

Olango Andrew B.

Mwesigwa David K.

END