

Guideline for making Eco -Engineering Product from Waste

This activity will encourage students to reuse or *up cycle** items that would normally be thrown away into functional items, clothing or decorative items. The theme of **activity will be and GLOBE and STEM Education.**

*Up-cy-cyle (*verb*) to reuse discarded objects or materials to create new products for better environmental value

Objectives:

- 1) Students will learn the value of reusing and up cycling items instead of buying new all while showing off their creativity.
- 2) Students will have the opportunity to demonstrate, display or model their up cycled products made from recyclable materials (e.g., newspapers, water bottles, containers, aluminum foil, etc.)

Materials required:

Old clothes, newspapers, plastics, aluminum foil, and any other items which are normally thrown out or are no longer of use.

Procedure:

- Students will work to create products that are either functional or decorative in nature. These can be made from multiple pieces to form interesting items.
- A few examples include creating:
 - Wallets from duct tape and cardboard.
 - Bracelets from old snack bags.
 - Origami animals and plants from scrap paper.
 - Beads for a necklace out of old magazines or junk mail.
 - A backpack or purse out of old jeans.
 - flower pins or headbands from fabric scraps.
 - Small desk-top animals out of scrap metal or aluminum foil.
 - A shirt out of several old shirts.

Tips:

Students can:

Use multiple pieces of clothing, such as pants, jeans, shirts, jackets,

- sweaters, socks, etc., to create a new piece of clothing. Ask fellow students or teachers to bring in items they no longer need or visit
- local thrift or second-hand stores that sell reused goods. Create a theme, such as outfits inspired by scientific discipline, music,
- movies, cartoons, parts of the world, the environment, etc.

The Web Exhibition:

- Students will share their up-cycled creations in a creative, fun Web - exhibition. (by posting their product on Social Media and using #GLOBEintimesofCOVID-19)
- E- Certificates will be awarded By Asia - Pacific GLOBE Regional Coordination Office.

Waste to Wealth Product Main objectives (takeaways, learning objectives):

- Sell, donate, or otherwise re-purpose usable clothing and household goods; don't throw them in the trash.
- It's cool to shop used first! Before you buy a new item, think about whether you could get it used.
- You can make creative items from reused materials.