

# The Circular Economy

make → use → reuse → repair → recycle

Imagine a big circle: materials go around and around — they never become useless trash!

## Why it is important

- ✓ protects nature
- ✓ reduces waste
- ✓ saves energy
- ✓ keeps materials in use longer

## Small actions → Big impact

- ✓ Reuse, not throw away
- ✓ Repair toys
- ✓ Wear second-hand clothes
- ✓ Create art from “trash”
- ✓ Compost food scraps

**You help Earth when you give objects many lives!**

## Our Bioplastic

Scientists are finding new ways to make materials from natural waste — not from oil.

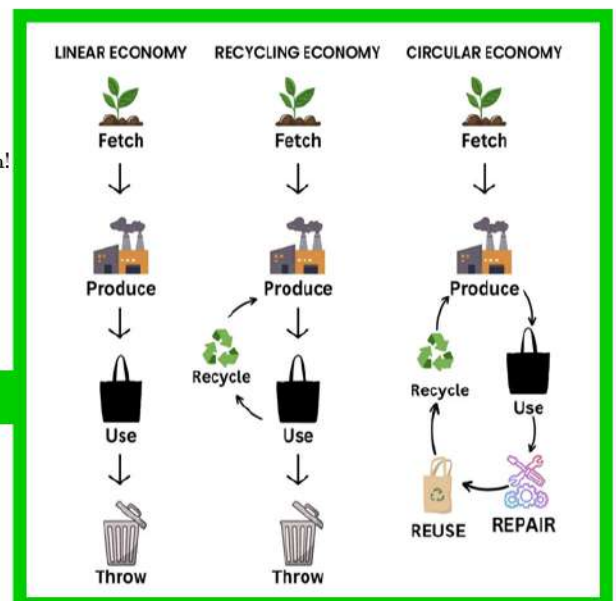


## Why is bioplastic better?

- ✓ comes from nature
- ✓ safer for the planet
- ✓ made from waste (nothing is thrown away!)

We use three special ingredients to create a biodegradable plastic!

INGREDIENT	WHERE IT COMES FROM	SUPER POWER	SUBSTITUTE
Agar agar	Red seaweed	Makes structure (shape)	Starch, Gelatin, Pectin
Glycerin	Plants & animal fats	Makes flexibility (bendy)	Honey, Sorbitol, Sugar syrup
Eggshell powder	Food waste	Makes strength (hardness)	Shell sand, Coffee, Paper



**Turn trash into treasure!**

# Bioplastic with Eggshells

## Ingredients / What you need

- **Water:** 100 ml
- **Agar powder:** 15 g
- **Glycerin:** 10 ml
- **Eggshell powder:** 100 g

## Steps

### 1. Prepare the eggshells

- Clean them well and let them dry
- Crush them into a **fine powder** (break them small)

### 2. Mix the ingredients

- Put **water** and the **agar powder** in a pot
- Add **glycerin**

### 3. Heat the mixture gently

- Warm it on a **low heat**
- Stir until it becomes thicker (gel-like)

### 4. Add the eggshell powder

- Slowly mix in the **eggshell powder**
- Stir carefully so it becomes a gooey material you can pour

### 5. Pour into a mold

- Put the warm mix into a **mold**
- Try not to make bubbles as you pour

### 6. Let it dry

- Leave the mold in a **warm, dry place**
- It may take **many hours or days** to dry completely

## Important note:

This activity involves heat and kitchen tools.  
Please do it **only with an adult supervising you at all times.**

# How to Make a Snow Globe

## What you need

- a **jar** (for example a jam jar)
- **water**
- **glitter**
- **small decorations**
- a little **glycerin**
- **silicone** (to close the lid)

## Instructions

1. **First**, clean the jar.
2. **Then**, glue the small decorations to the lid.
3. **After that**, add water **into the jar**.
4. **Next**, put some glitter **in the water**.
5. **Then**, add a little glycerin (1 or 2 drops)
6. **Finally**, close the jar and seal the lid with silicone.

## Important note:

Please do it **only with an adult supervising you at all times**.