



SUSTAINABLE DEVELOPMENT GOALS IN EDUCATION

projects that show how STEM can contribute to achieving the SDGs

Ketevan Ediberidze | J.L.C Tavadze and Company School Anabasisi | Zestaponi | Georgia

No Polyethylene!

- Project aim: making packaging material from starch.
- The largest amount of polyethylene is used for making the packaging material.
- The packaging material, which is produced from starch, we can use instead of polyethylene. For making packaging material, we used starch, water, glycerin, vinegar or citric acid and food dyes. The Combination of these abovementioned ingredients, modified starch and it happened at high temperature. From given mass, we made the packaging material which we think is one of the alternative ways to replace synthetic materials with bioplastics.

Process of making bioplastic



This bioplastic looks like polyethylene.



Czech Republic flag made of bioplastics.



Georgia flag made of bioplastics.

The packaging material, which is produced from starch, is environmentally save. It does not change food flavor. It does not dry food products. It is airproof. One of its advantages is also the following: It is easily decomposed with the help of water and microorganisms that are in our soil.