How Does The Compostable BioBag come to be?

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Before we jump right into the lesson, we will give a little background on BioBags.

- BioBags are a world leader in providing bags and films for the collection of organic waste for the purpose of composting.
- BioBags can only be consumed by micro-organisms that live in the soil, hence why they are called the compostable BioBag.



What is BioPlastic Made up of?

- Bioplastic is made up of substances made up of cornstarch, renewable raw materials and fossil raw materials.
- You can find the main source for bioplastic in Italy





What does polymer stand for? And how can you remember the word polymer.

- Polymer- a substance that has a molecular structure consisting chiefly or entirely of a large number or similar units bonded together.
- If you can't remember the word polymer just think about Paul the lemur.



What is polymers made up of?

Polymers are made up of long repeating chains of molecules being bonded & how they are bonded. Some polymers bend & stretch like rubber & polyesters. Others are hard & tough, like epoxies & glass.

Polymer molecules

- Polymer molecules are very large: macromolecules
- Most polymers consist of long and flexible chains with a string of C atoms as a backbone.
- Side-bonding of C atoms to H atoms or radicals
- Double bonds are possible in both chain and side bonds
- A repeat unit in a polymer chain ("unit cell") is a mer
- A single mer is called a monomer



What are polymers used for?

Polymers can me used for grocery bags, soda/water bottles, textile fibers, phones, computer, food packaging, auto parts and even toys.

Common Uses for Polymeric Materials	
Packaging	Paint
Bottles	Automative parts
Surgical sutures	Housewares: tupperwares, plates, cups
Electric components	Fabric
Contact lenses	Rubber
Adhesive	Pipes
M edical supplies: bone cement, blood bags	Plastic bags

Vocabulary

- Carbon Footprint: the total amount of greenhouse gas emissions produced to support an individuals activities, both directly and indirectly
- Commission: to give an order to produce something
- Polymer: A large molecule made up of shorter repeating sun bits called monomers
- Synthetic: Made from a chemical reaction; not natural
- Water Treatment plant: a facility that processes water to remove conaminants

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