

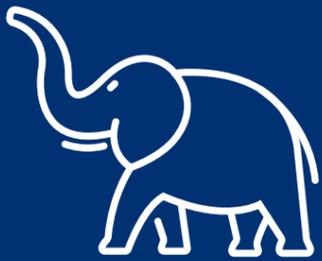
THE HISTORY OF PLASTICS

BEFORE PLASTIC

Before plastic was invented, materials used were primarily gathered from nature.

a) Bone b) Wood c) Antlers d) Turtle Shell e) Ivory (from the tusks of elephants)

Due to this, Turtles and Elephants faced extinction.



1869

Scientists were tasked to provide a substitute for ivory and experimented to develop a new material that would be long-lasting and useful, and that didn't require hunting/ harming animals.

Scientists developed a material that could be easily made using leftover parts from oil. When the oil was combined with acid – a long lasting and durable material was formed.



THE INVENTION OF PLASTIC

FUN FACT! The word plastic means pliable and easily shaped

This discovery was **revolutionary**. For the first time human manufacturing was not constrained by the limits of nature.

The development **helped not only people but also the environment**.

Plastics could protect the natural world from the destructive forces of human need.



PLASTIC TODAY

The reputation of plastics has suffered due to a growing concern about the potential threat they pose to human health and the environment.

Health concerns focus on the additives (such as the much-discussed bisphenol A [**BPA**] and a class of chemicals called **phthalates**) that go into plastics during the manufacturing process.

While so many plastic products are **disposable**, the plastic itself lasts forever in the environment. The plastics industry has been working on the implementation of **recycling as a solution**. However, the infrastructure for recycling is far from perfect, and most plastics still end up in **landfills** or in the **environment**.



THE FUTURE OF PLASTIC

Plastics have a valuable place in our lives, but there is a need to make plastics safer and more sustainable.

That is why we are looking at using:

- Bioplastics:** Made from plant crops instead of fossil fuels, to create substances that are more environmentally friendly than conventional plastics.

- Plastics that are truly **biodegradable**.

- An **efficient waste management system** that allows for **successful recycling**



PLASTICS ARE AN IMPORTANT AND NECESSARY PART OF OUR FUTURE.

TOGETHER WE CAN MAKE OUR WORLD BETTER BY BEING ACTIVELY INVOLVED IN "REDUCING, REUSING, RECYCLING" PLASTIC