**Manufacturing Processes**

**Introduction**

Have you ever examined a product and wondered how it was made? Did you consider why the creators chose certain materials for the product? The next time you are in a convenience store, walk back to the refrigerated area and look at the different containers that hold liquid. You will see an amazing variety of shapes and sizes, yet each container is designed to do the same thing – hold a liquid substance.

While many of us wonder why the container was made, few of us consider the importance of how the container was made. Manufacturing processes play a vital role in the production of consumer products.

**Procedure**

1. Choose a consumer product to investigate. Obviously you want to be able to find information on the manufacturing process of this product so choose wisely.

2. Create an electronic illustration outlining the manufacturing processes used to create the product from raw material to finished product. This can be a Prezi, PowerPoint, or another teacher approved software.

3. Cite the source(s) that assisted you in identifying the manufacturing process(es) for your modeled part.

Conclusion (Answer these questions at the end of your presentation – the last slide)

1. What newer materials are changing the traditional production process, and how is the process being changed?

2. What are the social, economic, and environmental impacts associated with the production changes?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Your presentation should be between 3-5minutes
* You may use video in your presentation but no longer than a total of 60 seconds.
* The presentation should trace the product back to its raw materials and end with how the product is packaged and shipped.
* Include specific **raw materials** and information about these raw materials **(where the come from, what material properties lead to the material choice used for this product over others**)
* Specific manufacturing techniques (What is the technique called and how does it work)
* Specific regions of the world where the manufacturing takes place
* Specific stores/businesses that sale the product
* You should present on **the techniques used** to manufacturing the product, **the materials used** to manufacture the product, **Production time**, **the machines used** to manufacture the product, **the area of the world** that your product is manufacture in, **and anything else** you find relevant to the manufacturing of the product.
* Determine the **target consumer** for the product
* Discuss how the product is **Disposed/recycled**
* Is this product **custom/batch/** or **continuous** manufactured?