**How it’s Made**

**Learning Target:** I can explain the concepts related to processing materials using machine tools and equipment.

**Warm-up:** Write these words on the front of 5 separate notecards and have them predict how many steps they think it takes to get it packaged and on the shelf; from start to finish. Have students talk in table groups and participate in a class sharing.

Pencil, hair brush, stuffed animal, Tupperware, and notebook

**Activity #1**: <http://www.sciencechannel.com/tv-shows/how-its-made/videos/>

Today we will be discussing the manufacturing process of products. Have you ever had/seen a product and wondered how it was made?

***Part 1:***

Teacher will show a 2-3 minute (OF THEIR CHOICE) ‘How it’s Made’ video and on a notecard while watching the video students will list:

* Product Name
* 10 steps in the process (can be out of order and skipping around)
* Skills that are being performed by worker(s) or tools they see performing a task

**Possible Videos:**

Gliders - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/how-its-made-gliders/>

Fleece - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/how-its-made-fleece/>

Disposable Diapers - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/how-its-made-disposable-diapers/>

3-D printers - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/3d-printers/>

Screwdrivers - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/how-its-made-screwdrivers/>

Hot dogs: <http://www.sciencechannel.com/tv-shows/how-its-made/videos/hot-dogs/>

Rolling Luggage - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/rolling-luggage/>

Baseball bat: <http://www.sciencechannel.com/tv-shows/how-its-made/videos/aluminum-baseball-bats/>

Paper Towels - <http://www.sciencechannel.com/tv-shows/how-its-made/videos/music-video-paper-towels/>

Pencil sharpener: <http://www.sciencechannel.com/tv-shows/how-its-made/videos/pencil-sharpeners/>

***Part 2:***

Discuss these guiding questions:

* Were you surprised by the amount of steps needed to manufacture a product?
* How does an idea for an invention or product get to this point?
* What items were used prior to this invention?
* How does this connect with Genius Hour?