

Grade 8 Science

Unit 4: Systems in Action



Systems in Industry

Today we will look at automated mechanical systems used in industry.

Prior to the industrial age, all products were hand made and every one was unique. In the early 1900's, however, a few individuals came up with the idea to standardize components so they may be interchangeable.

The following article briefly documents the evolution of automation and the assembly line:

[The Evolution of Assembly Lines: A Brief History](#)



Systems in Industry

It is not just the automotive industry that has adapted automation and the assembly line as common practise. Now a days, most products are manufactured in this manner.

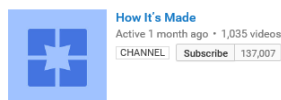
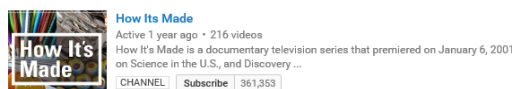
Your task for today will be to look at the production of a product and document some specific information. There will then be a few quick discussion questions to answer about the product you have chosen.

"How It's Made" is a show that airs on The Discovery Channel. This show documents the production of products from raw materials to finish product. You will be watching segments of this show to see how automation is used. The explanation of your task is on the next slide.



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- Get in a group of two or three and get two laptops (one for typing one for video).
- Navigate your way to YouTube and search "How It's Made."
- Go to one of the two channels shown in the image below.
- Browse through the videos to find a product that you may find interesting.
- Watch the video once (only one product, about 5 minutes, not a full episode).
- I have shared a folder with you on the cloud, make a copy of the template found there - save it with your product name.
- Re-watch the video, pausing to fill in the required information on the document - you may reference the example on "Balloons."
- If you finish with time remaining, you may watch videos of other products.



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