

# CGC1P Unit 4: Canadian Industries

## Activity 5: Processing Raw Materials and Making and Assembling Parts

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### Overview

The products created in manufacturing use materials and resources that were found in Canada and around the world. The direct and indirect jobs created have a huge impact on the economy of Canada. However, manufacturing industries also can create environmental problems.

### Lesson

There are **THREE** stages involved in manufacturing a product. They are:

- Processing raw materials
- Making parts
- Assembling parts

#### ***Processing Raw Materials***

When we think of the term "*raw*," we usually think of raw meat, that is., meat which is uncooked. The same thinking can be used with the term "*raw materials*." Resources like iron ore need to be "cooked" so they can be made into various products.

Logs from the forestry industry need to be processed into semi-finished products. These giant rolls of paper are then later made into various paper products like *newspapers or tissue paper*.

**Semi-finished products:** Products that have been processed from raw materials but are not yet ready for sale to the public consumer.

Iron ore from the mining industry needs to be processed into a semi-finished product like *steel*. Huge rolls of steel are then used by companies to make various products such as parts for skateboards and automobiles.

The biggest producers of steel in Canada are Dofasco and Stelco, which are both located in Hamilton, Ontario.

#### ***Making Parts***

At one time automobile manufacturers made all the parts they needed for their cars. However, today it is much more efficient to buy these parts from manufacturing companies that specialize in producing such items as wheel rims, decorative trims, or body panels.

### ***Assembling Parts***

Once the raw material of iron ore has been processed into steel, and parts for the automobile have been made from this steel (and other materials), what that remains to be done is to put the parts together. This is the assembly phase of manufacturing.

### ***Environmental Issues***

Manufacturing may be a major driving force of the Canadian economy, but it is also a major source of pollution. We rely on our government to ensure pollution standards are being met by industry in Canada.

## **Assignment**

1. What are the three stages involved in manufacturing a product.
2. What are semi-finished products?
3. Research a manufacturing company in your community or in Ontario to complete the following questions.

**Name of Company:** \_\_\_\_\_ **Type of Industry** \_\_\_\_\_

1. Type of product manufactured:
2. Raw materials used:
3. Transportation used for shipping raw materials and the finished product:
4. Where the products are shipped:
4. Why the industry you chose is located where it is: