

## Royal High School Science Assignment

1. Pick a commodity at the Royal and answer the following questions:
  - a. List and define 5 specific terminology (Knowledge and understanding)
  - b. Produce 4 open ended question related to the chosen commodity (Thinking)
  - c. Select 1 of the questions and develop a strategy to answer it (Investigation)
  - d. Compose a tweet with one thing you've learned from this inquiry (Communication)
  - e. List some ways this commodity contributes to the local economy (Application)

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### Example: Dairy Industry (Definitions taken from [www.milk.org](http://www.milk.org))

- a) **Bulk Tank:** A large, insulated container that is used to store and cool milk on the farm  
**Homogenization:** Process of breaking up fat globules into smaller particles. When milk is homogenized, the fat stays evenly distributed throughout the milk and does not separate and rise to the top.  
**Industrial Milk:** Milk that is sold for further processing into dairy products such as cheese, ice cream, etc.  
**Pasteurization:** The process of heating raw milk to a high temperature and cooling it rapidly to kill any natural bacteria that may be present  
**Tractor:** A powerful machine that pulls a variety of farm implements.  
**Udder:** The mammary gland of cows where milk is produced.
- b)
  1. What are local dairy farmers doing to combat new non-dairy competitors (almond milk, coconut milk) in the market?
  2. Is the popularity of dairy shrinking due to more non-dairy alternatives in the market?
  3. What has been the impact of the new changes to Canada's food Guide and the shift away from eating dairy?
  4. Why do people choose to drink unpasteurized milk?
- c) Is the popularity of dairy shrinking due to more non-dairy alternatives in the market?
  - Ask dairy Farmers in the Dairy Education centre about if they feel like there is less need
  - Research online for credible sources to see if the need has gone down
  - Do a survey and see how many people switched to a non-dairy alternative
- d) Tweet: A dairy cow will produce 27 litres of milk from two daily milkings#agricultured  
#RAWFEDUCATION
- e) Careers that relate to Dairy
  - Dairy Farmers
  - Computer software developer
  - Milk Transportation Truckers
  - Lab Technician

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