

## S2 Topic 2 – So you want to be a Chemical Engineer?

### Project - Products from Plants

*I can work with others to design, market and manufacture a shampoo.*

- I can explain why we used certain essential oils and herbs for our shampoo.
- I am aware of how essential oils are extracted in industry – steam distillation. We can replicate this process in the lab but it is not as efficient.
- I can extract fragrances from herbs by boiling them in water.
- Using ingredients provided, I can make shampoo.
- After having done this, I can test my shampoo against others in the market by testing their pH, ability to break down oil, and by testing foam formation, quality and retention.
- I am able to work with my peers to create a presentation to ‘sell’ our product to investors.
- I can use a variety of sources to research the uses of different plants.
- I can give examples of:
  - Medicines that are derived from plants.
  - Plants that can be used as herbal remedies.