

Exploring Oil Sands Science

Instructions: Using the links below, watch the Exploring the Oil Sands Science – Part 1 and Part 2. As you watch, answer the following questions.

Exploring the Oil Sands Science: Part 1 - <https://goo.gl/12W5Ru>

Exploring the Oil Sands Science: Part 2 - <https://goo.gl/KcZ3Dr>

PART A: Introduction Questions

1. What are some of the ways in which we use oil on a daily basis?
2. Where are most of the oil sands in Canada found?
3. What is oil sand made up of (include the percentages)?
4. What is **bitumen**?

PART B: The Four Step Process. For each of the four steps in the process, summarize what is taking place.

1. Extraction
2. Froth Treatment

3. Upgrading

4. Refining

PART C: The Use of Water

1. How many barrels of water are used in the process, from extraction to refining?
2. How many of the barrels must be fresh water?
3. What are **tailings ponds**?