

from seashells to sneakers

The Athabasca oil sands are a non-renewable resource unique to Fort McMurray, Alberta and Canada. But how did it get there and what do we do with it? Students participate in hands-on science activities, tours, model building and games to enhance their knowledge of the oil sands industry.

CURRICULUM CONNECTION — Alberta: A Sense of Land

► Program Outline | 90 minutes

Greeting and Introduction

Welcome and organization

Program Activities

- **Oil sand origins**
Through demonstrations and experiments, students will discover how the oil sands were formed in the Fort McMurray region.
- **Mine monsters tour**
Meet some of the monster machines that work at the plant site mining oil sands.
- **Oil from oil sands**
Using Dr. Karl Clark's hot water process, students will extract bitumen from oil sand, then discover how it is changed into synthetic crude oil.
- **Pipeline highways**
Plan and build a model pipeline to transport the oil from the plant site to refineries across Canada.

Conclusion and Departure

Summarize, questions and prepare to depart

