



How Fluids are Stored Underground - Curriculum Connections

Suggested Grades: K-6

Curriculum Connections: Matter (Gr K, 1, 3, 5, 6), Energy (4-6), Earth Systems (Gr 2-4), Computer Science (K-1), Scientific Methods (Gr 1, 4, 5, 6)

Specific Learning Outcomes:

Kindergarten

- *Matter* - Children examine properties of objects (e.g., compare water and oil).
- *Computer Science* - Children interpret instructions in various environments.

Grade 1

- *Matter* - Students analyze properties of objects and investigate how they can be changed (measurements, e.g., quantity of water and oil).
- *Computer Science* - Students follow instructions and relate them to outcomes.
- *Scientific Methods* - Students engage in and describe investigation (data collection).

Grade 2

- *Earth Systems* - Students investigate Earth, its landforms, its bodies of water, and its relationship to the Sun (components of Earth include land, water).

Grade 3

- *Matter* - Students investigate and analyze how materials have the potential to be changed (how does adding solid marbles to our mix of liquids change how it behaves?).
- *Earth Systems* - Students analyze changes in Earth's surface and explain how its layers hold stories of the past (human activities change Earth's surface - connect to oil wells, fossil fuels).

Grade 4

- *Energy* - Students investigate how forces can act on objects without contact (forces and objects - gravity).
- *Earth Systems* - Students investigate the systems of Earth and reflect on how their interconnections sustain life (natural resources - connect to oil).



- *Scientific Methods* - Students investigate evidence and reflect on its role in science (qualitative data - writing down observations).

Grade 5

- *Matter* - Students investigate the particle model of matter in relation to the physical properties of solids, liquids, and gases (density).
- *Scientific Methods* - Students investigate how evidence is gathered and explain the importance of ethics in science (variables can be controlled or changed).

Grade 6

- *Matter* - Students investigate how particles of matter behave when heated or cooled and analyze effects on solids, liquids, and gases (particle model of matter).
- *Energy* - Students investigate energy resources and explain factors that influence their use (connect to oil).
- *Scientific Methods* - Students investigate and describe the role of explanation in science (hypotheses are proposed scientific explanations developed prior to conducting an investigation).