Links to Curriculum for Excellence



PRIMARY TEACHERS

'Fish, Fossils and Fuels' – Where does oil come from?			
Science and Technology Es and Os	Activity Overview	Resources	Suggested Interdisciplinary Links
SCN 2-17a: Having explored the substances that make up the Eartho surface, I can compare some of their characteristics and uses.	Using readily available materials, pupils will investigate the processes involved in the formation of oil over several days.	 Pupil Role Cards Bread Fossils Experiment Record Book Reference: Oil and Natural Gas, pages 18-19 Materials per Group: 3 slices of bread (1 each of white, brown, seeded) Soft gummy sweets Heavy books Paper Towels Magnifying lens Apple corer Plastic knife 	LIT 2-02a LIT 2-09a LIT 2-15a SOC 2-01a HWB 2-09a HWB 2-11a

'It's a Gas – Natural Gas' – What is natural gas?			
Science and Technology Es and Os	Activity Overview	Resources	Suggested Interdisciplinary Links
 SCN 1-15a: Through exploring properties and sources of materials, I can choose appropriate materials to solve practical challenges. SCN 2-15a: By contributing to investigations into familiar changes in substances to produce other substances, I can describe how their characteristics have changed. SCN 2-17a: Having explored the substances that make up the Earths surface, I can compare some of their characteristics and uses. TCH 1-02a: Throughout all my learning, I take appropriate action to ensure conservation of materials and resources, considering the impact of my actions on the environment. 	Using readily available materials, pupils will investigate the processes involved in the formation of natural gas.	Pupil Role Cards Itos A Gas Experiment Record Book Reference: <i>Oil and Natural Gas,</i> pages 20-23 Materials per Group: 1 hard cooked egg with shell 2 lettuce leaves 500ml plastic bottle 1 balloon Measuring cylinder / jug 1 funnel 50g sand 25ml dirty water (add soil to water) Masking tape Scales	LIT 2-05a LIT 2-06a LIT 2-09a MNU 2-11b HWB 1-09a HWB 2-09a HWB 1-11a HWB 2-11a

Seeping Stones – What are oil traps?			
Science and Technology Es and Os	Activity Overview	Resources	Suggested Interdisciplinary Links
SCN 1-15a: Through exploring properties and	Using a collection of rocks, predict	Pupil Role Cards	LIT 2-09a

sources of materials, I can choose appropriate materials to solve practical challenges.

SCN 1-20a: I have contributed to discussions of current scientific news items to help develop my awareness of science.

SCN 2-17a: Having explored the substances that make up the Earth s surface, I can compare some of their characteristics and uses.

TCH 1-02a: Throughout all my learning, I take appropriate action to ensure conservation of materials and resources, considering the impact of my actions on the environment. and test whether water can be absorbed by the rocks.

LII 2-09a
MTH 2-20b
MTH 1-21a
MTH 2-21a
SOC 1-07a
SOC 1-13a
SOC 2-13a
HWB 1-09a
HWB 2-09a
HWB 1-11a
HWB 2-11a

Links to Curriculum for Excellence



PRIMARY TEACHERS

w Resources Suggested Interdisciplinary Links
ble r e th n th oil.

'Give it a Lift' – How do we get the oil out?			
Science and Technology Es and Os	Activity Overview	Resources	Suggested Interdisciplinary Links
 SCN 1-20a: I have contributed to discussions of current scientific news items to help develop my awareness of science. SCN 2-17a: Having explored the substances that make up the Earths surface, I can compare some of their characteristics and uses. TCH 1-02a: Throughout all my learning, I take appropriate action to ensure conservation of materials and resources, considering the impact of my actions on the environment. TCH 1-14a/2-14a: Through discovery and imagination, I can develop and use problem solving strategies to construct models. 	Using readily available materials pupils will investigate the engineering challenges involved in drilling to release petroleum.	 Pupil Role Cards Give it a Lift Challenge Record Book Reference: <i>Oil and Natural Gas,</i> pages 32. 35, 38,39 Materials: (see Challenge Record for details) Drinking straws Masking tape Scissors 75cm string tied to weight (can be bucket or bottle filled with water) and ruler Sturdy piece of cardboard with hole cut in the middle Carton of chocolate milk 	LIT 1-09a LIT 2-09a MNU 2-09a SOC 2-03a TCH 1-11b TCH 2-11b HWB 1-09a HWB 2-09a HWB 1-11a HWB 2-11a
		(chocolate so it can be seen through the straw)	







Developed for *Curriculum for Excellence* by Aberdeen City Council and Satrosphere Science Centre with support from The Society of Petroleum Engineers