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June Enrichment Activities  
Grades 3-6



## Fossil Fuels

Define fossil fuels then answer the following prompts.

**FOSSIL FUEL:**

What do we use these for and why are they important?

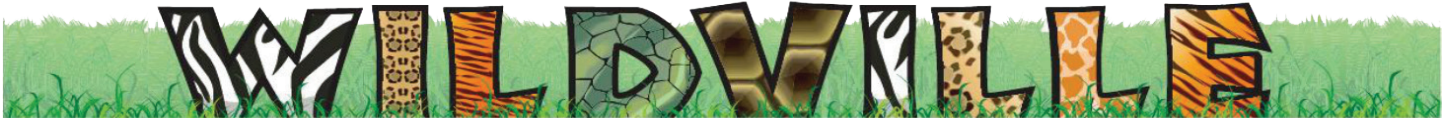
OIL is used for:

COAL is used for:

NATURAL GAS is used for:



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# Beluga Sturgeons

Why are Beluga sturgeons endangered?

Characteristics of a Beluga sturgeon:



Where are Beluga sturgeons located?

What is sustainable fishing and why is it important?



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What's It Like to Be a... **Grades 3-6**  
**GEOLOGIST**



What is geology?

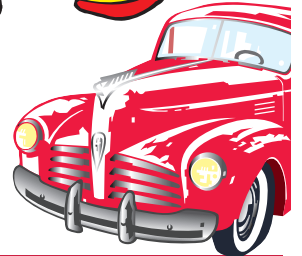
What does a PETROLEUM geologist do?

Why is this work important/how does it apply to everyday life for most people?

What is something cool most people don't know about fossil fuels?



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## Fossil Fuels

Define fossil fuels then answer the following prompts.

**FOSSIL FUEL:** a fuel (as coal, oil or natural gas) that is formed in the earth from plant or animal remains

What do we use these for and why are they important? We use fossil fuels to power our homes, our vehicles, businesses and more, yet they are a nonrenewable resource, which means they will eventually run out.

**OIL** is used for:

Once oil is out of the ground, it is refined to create fuel oil, gasoline, liquefied petroleum gas and other nonfuel products such as pesticide.

**COAL** is used for:

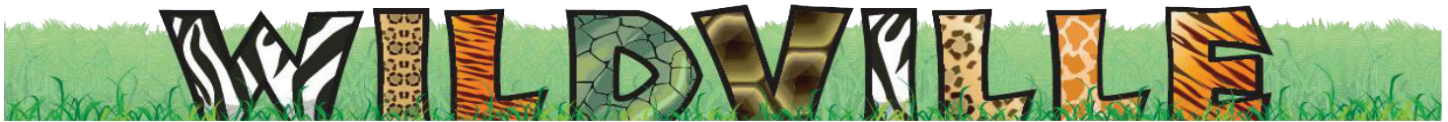
Coal is used to generate electricity.

**NATURAL GAS** is used for:

This resource is mostly used to produce heat and electricity for buildings or for industrial processes. It is also used to make fertilizer, paints and plastics.



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# Beluga Sturgeons

## Answer Key

### Why are Beluga Sturgeons endangered?

Unfortunately, many sturgeon species are endangered from over-fishing. Their eggs, called caviar, are considered a delicacy all over the world. The Beluga caviar is the most expensive, but the eggs from the Ossetra and Sevruga sturgeon are also popular.

### Characteristics of a Beluga sturgeon:

- Sturgeons are very large. Most grow between 7 and 12 feet long, but some species can reach even 18 feet long.
- The largest recorded sturgeon caught was a female that weighed 3,463 pounds and was 24 feet long.

• Some of the characteristics that are different from more modern fish are the lines of bony plates along their sides that act as armor. They have these bony plates called scutes instead of scales. The rest of their skin is smooth.



### What is sustainable fishing and why is it important?

There are fishermen who are working hard to still provide the delicious salty eggs while still making sure that the sturgeon population lasts for years to come.

### Where are Beluga sturgeons located?

- They are bottom feeders.
- Different species live all over the world, but they generally like river deltas and estuaries.
- The Beluga is the largest species, they live in the Caspian and Black Seas.



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What's It Like to Be a... Grades 3-6  
**GEOLOGIST** Answer Key



What is geology?

Geology is an earth science comprising the study of solid Earth, the rocks of which it is composed and the processes by which they change.

What does a PETROLEUM geologist do?

A petroleum geologist works at a drilling rig and looks at drill cuttings, which are samples of the rock that is being ground up by the drill bit. They look for porosity — or holes in the rock — and oil shows, which indicate a rock unit that may have oil and natural gas trapped in the rock. A lot of their work is done looking at rocks under a microscope.

Why is this work important/how does it apply to everyday life for most people?

A petroleum geologist helps an oil company find oil and natural gas. This oil is refined — or separated into various components — such as gasoline, diesel, jet fuel and other petroleum products.

What is something cool most people don't know about fossil fuels?

Did you know that petroleum is used in making cosmetics — such as our mom's lipstick? It is made from petroleum! How about pain medicines? They are made from a base of petroleum products called benzenes. And, how about petroleum products used to make our bicycles? The tires, seats, hand grips and all the comfort parts of a bike are made from petroleum-based products. A bicycle with no petroleum-based parts is all metal — and very uncomfortable to ride!