

UPGRADE to the Growing Bundle

CLICK HERE



Save 75%!

- ✓ **Covers ALL Science Topics**
- ✓ **Daily Work or as a Sub Plan**

6th, 7th, 8th Grade Reading Mega Bundle

Reading Comprehension Passage & Questions

- ✓ Over 115 Readings! Covers all Science Topics
- ✓ No Prep, Ready-to-Use Resource in Google and Office Format
- ✓ Includes Comprehension and Extension Questions



Fracking – Its Benefits and Dangers



A Brief History of Fracking

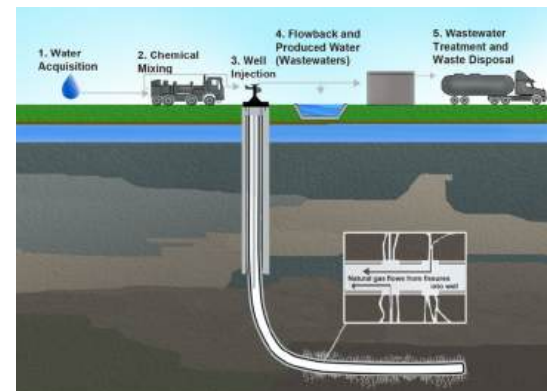
Fracking is a way that people get gas and oil from the ground. Fracking means that cracks are made in rocks underground, by using a special liquid that is pumped using a very strong force. This liquid forces the gas and oil out of the rocks. Many people believe that fracking can cause serious problems to our planet. But there are also many people who believe that without fracking, we would not be able to get the energy we need to drive our cars, and have electricity in our homes. Wind power, solar power, and traditional ways to get oil and gas using oil rigs and wells can still be used, but these ways still need to get better and they cost lots of money.



Fracking Protest - Photo credit: greensefa

How Does Fracking Work?

- Fracking starts by drilling a well deep into the rock where the oil and gas are located (oil and gas wells). These wells are usually found 1 - 2 miles (1.6 – 3.2 km) below the surface.
- The drill is bent into the shape of an L and drilling continues in the horizontal direction for thousands of feet.



Ecobottle Sample



This section has been removed

- Once the fracking is finished in an area, the wells are filled with cement.



Wellhead left after fracking equipment has been removed. Photo credit: Joshua Doubek

Why Fracking?

Ecobottle Sample



This section has been removed

It is not allowed in many countries because some believe it is not safe.

The Impact of Fracking on the environment

Fracking is not allowed in some countries because many people believe that it hurts the planet. It can cause air pollution, it can make drinking water dirty, and it can cause earthquakes. Although fracking has been helpful, it may end up being harmful to the earth and people.

This kind of air pollution can cause more cancer; irritate the eyes, nose, and throat; harm the nervous, respiratory, and immune systems.

Also, fracking can cause small earthquakes, which may or may not be noticed. Some scientists think that if these small earthquakes keep happening, very dangerous earthquakes may end up happening too.

Reading Comprehension Questions

1. What is
2. Explain how a fracking well is created.
3. What is
4. What is the function of the sand in the slickwater mixture?
5. List at
6. What
7. Give two impacts of fracking on the environment.

Extension Questions

8. Do you
9. Do your own research on fracking and fill in columns shown below (redraw the columns in your workbook). For each point you must state a) where you got your information (the website, article, etc.), b) who stated the information, c) where they work - do they work for an environmentalist group, oil company or other (describe who they work for). You must have at least 5 points for each side of the table.

Benefits of Fracking	Negatives of Fracking

10. Based on
11. The potential release

Ecobottle Sample



This section has been removed

TWF READING

References

- Aloulou, F. and Zaretskaya, V. (n.d.) "What is Shale Gas?" *Geology.com, Energy Information Administration*. Retrieved August 15th, 2016 from <http://geology.com/energy/shale-gas/>
- Charlez, Philippe A. (1997). "Rock Mechanics: Petroleum Applications, Volume 2." *Editions Technip*. P. 239. Retrieved August 14th, 2016 from https://books.google.com/books?id=NigwG_BYRsYC&pg=PA239#v=onepage&q&f=false
- Good, K. (2015). "These 4 Countries Have Banned Fracking...Why Can't the US Get On Board?" *One Green Planet*. Retrieved August 15th, 2016 from <http://www.onegreenplanet.org/environment/countries-except-united-states-that-have-banned-fracking/>
- Inman, M. (2014). "Natural gas: The Fracking Fallacy." *Nature*. Retrieved August 15th, 2016 from <http://www.nature.com/news/natural-gas-the-fracking-fallacy-1.16430>
- Jolly, D. (2013). "France Upholds Ban on Hydraulic Fracturing." *New York Times*. Retrieved August 14th, 2016 from <http://www.nytimes.com/2013/10/12/business/international/france-upholds-fracking-ban.html>
- Lallanilla, M. (2015). "Facts About Fracking." *Live Science*. Retrieved August 14th, 2016 from <http://www.livescience.com/34464-what-is-fracking.html>
- Nunez, C. (2013). "How Has Fracking Changed Our Future?" *National Geographic*. Retrieved August 15, 2016 from <http://environment.nationalgeographic.com/environment/energy/great-energy-challenge/big-energy-question/how-has-fracking-changed-our-future/>
- Petersen, M.D., et al. (2016). "2016 one-year seismic hazard forecast for the Central and Eastern United States from induced and natural earthquakes." *US Geological Survey*. Open-File Report 2016-1035. Retrieved August 15, 2016 from <https://pubs.er.usgs.gov/publication/ofr20161035>
- Srebotnjak, T. and Rotkin-Ellman, M. (2014). "Fracking Fumes: Air Pollution from Hydraulic Fracturing Threatens Public Health and Communities." *Natural Resources Defense Council*. Retrieved August 15th, 2016 from <https://www.nrdc.org/sites/default/files/fracking-air-pollution-IB.pdf>
- Vaidyanathan, G. (2016). "Fracking Can Contaminate Drinking Water." *ClimateWire, Scientific America*. Retrieved August 15th, 2016 from <http://www.scientificamerican.com/article/fracking-can-contaminate-drinking-water/>

TWF READING SAMPLE