



What is out there and how can we protect it? Natural resources



Sticky Knowledge

- The California Gold Rush was triggered by the discovery of gold in the Sierra Nevada Hills in 1848
- Nevada is the top gold mining state of the US.
- Gold mining is one of the destructive industries in the world. It can displace communities and poison the ground
- Conflict diamonds are mined in war zones; the money earned from selling conflict diamonds is used to buy weapons
- Water insecurity can be caused by physical factors, such as climate, and human factors such as population
- Fossil fuels are formed over millions of years and are forms of non-renewable energy
- Food miles are the distance food has travelled to get to your plate – from the farm it's grown in to your home
- Carbon Footprint can be reduced by implementing the 5 Rs: refuse, reduce, reuse, rot and recycle

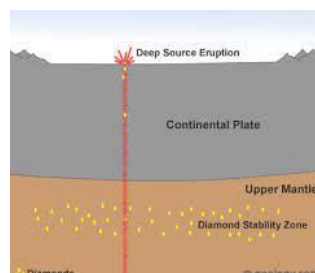
Big Questions

What are some of the biggest environmental issues that we face today?

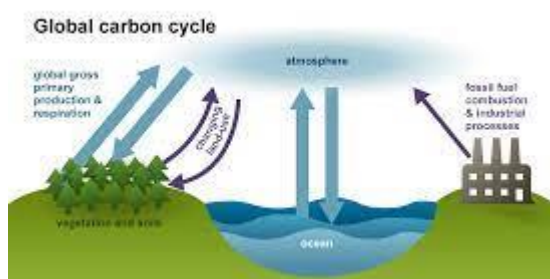


Where do diamonds come from?

Some diamonds are mined in open pit mines. The open pit can be kilometres long and a kilometre wide, and cover many hectares. Soil and rock are removed so that rock containing diamonds can be collected. Explosives are used to break open the rock. Tonnes of rock is taken by trucks to a crusher.



How do fossil fuels effect the environment?



What have we learned?



Subject Specific Vocabulary

Gold Rush



The California Gold Rush was a time period where hundreds of thousands of people move to California between 1848 and 1855, seeking their own fortunes by finding gold.

Gold Mining



Gold mining is the extraction of gold resources by mining. Like all mining, human rights and environmental issues are common issues in the gold mining industry.

Conflict diamonds



A conflict or blood diamond is an illegally obtained diamond that is used to finance rebel groups in some African countries.

Water insecurity



Water insecurity is defined as the lack of a reliable source of water, of appropriate quality and quantity to meet the needs of the local human population and environment.

Fossil fuels



Fossil fuels are coal, oil and natural gas formed from the remains of dead organisms known as fossils.

Nevada Gold Mines



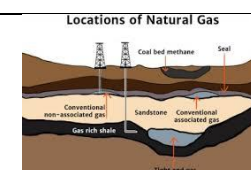
Currently the top gold mining state of the US, Nevada is home to three of the world's top 10 gold mines and seven of the top 10 US sites.

Chernobyl



The worst accident in the history of nuclear power generation was the Chernobyl disaster. It occurred in 1986 in Ukraine. The accident caused large amounts of radioactive particles to be released into the air and caused illness and death in the local area.

Natural Gas



The gases that make up natural gas include methane, ethane, propane, butane, and other substances. Because these gases burn very easily, they are valuable as fuels.

Carbon Footprint



A carbon footprint is the total amount of greenhouse gasses including carbon dioxide and methane, released into the Earth's atmosphere as a result of human activities rather than natural omissions.