

Resources 101

Ms. Larsh

What are Natural Resources?

Resources provided by Earth, including air, water, all living organisms, and land (nutrients, rocks, & minerals)

NATURAL RESOURCES



What are Renewable Resources?

Natural resources that can be replaced by nature in a short period of time

- Renewable resources



What are Non-Renewable Resources?

Resources that exist in a fixed amount (finite), in various places in Earth's crust and can be replaced only by geological, physical, & chemical processes that take millions of years

Nonrenewable resources



What is Sustainability?

“**sustainable** development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

-UN World Commission on Environment & Development

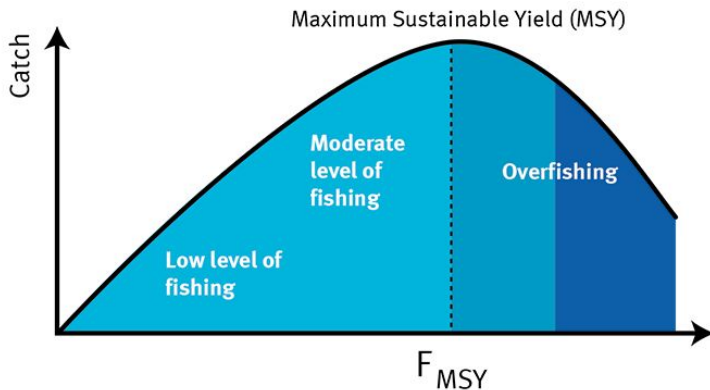
Sustainability



What is a Sustainable Yield?

The replacement of renewable resources at the same rate at which they are consumed

Sustainable Yield



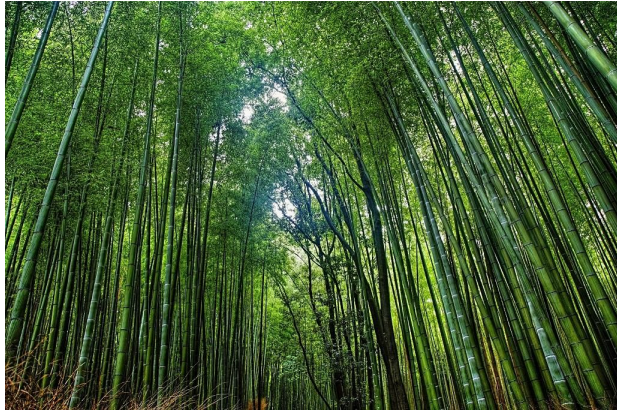
Ex: Bamboo

What is it used for?

Food, shelter, fuel, clothing, and household items

Why is it a sustainable renewable resource?

Bamboo is a grass that can be harvested without replanting, grows without fertilizer or pesticides, and can be harvested every 3-5 years



Bamboo



Ex: Sun

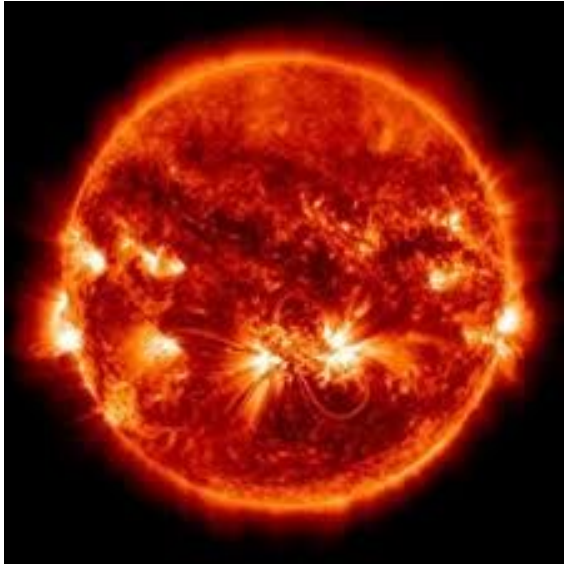
What is it used for?

Food via photosynthesis, energy via solar panels

Why is it a sustainable renewable resource?

While the sun is not provided by Earth, it is considered a renewable resource for at least the next 5 billion years

The Sun



Ex: Fossil Fuels

What is it used for?

Fuel for transportation & manufacturing, used to create plastic products

Why is it a non-renewable resource?

It takes hundreds of millions of years over which large amounts of organic matter are subjected to increased pressure



Fossil Fuels



Ex: Gold, Copper, & Silver

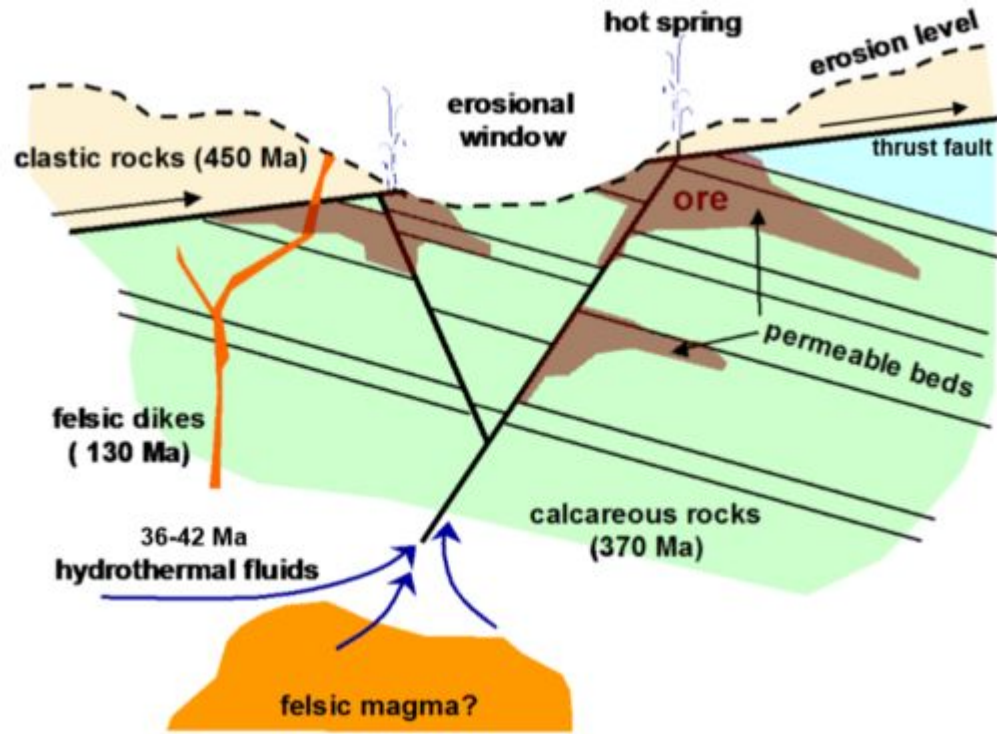
What is it used for?

Jewelry, pipes, currency, fillings, silverware, and more

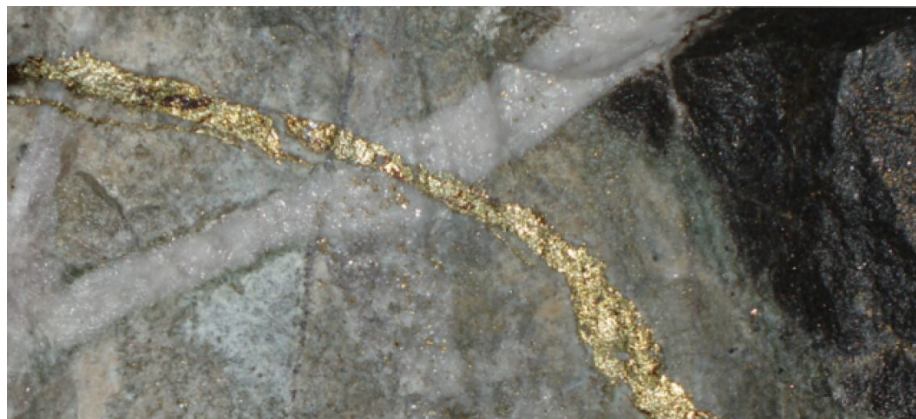
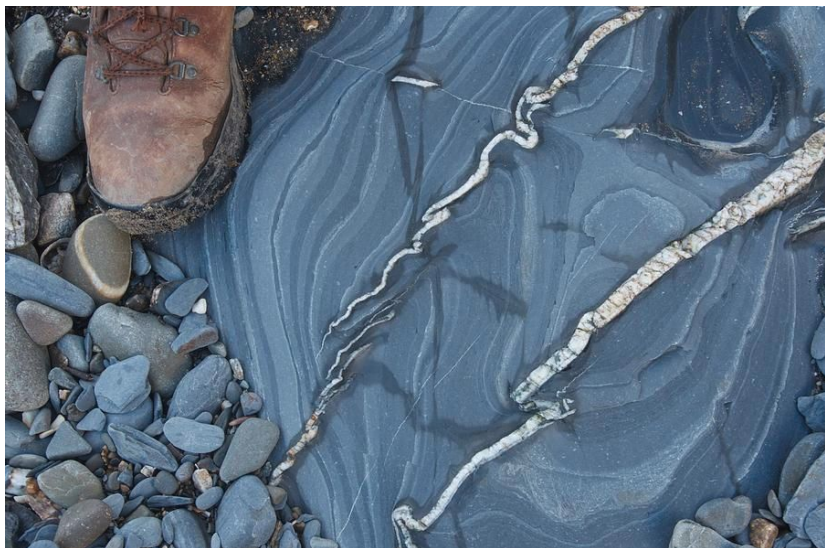
Why is it a non-renewable resource?

Metals are formed by hydrothermal fluids which create metallic ore deposits called hydrothermal veins

Hydrothermal Fluids



Hydrothermal Veins



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Hydrothermal veins