

# Nonrenewable Resources

*LHA Earth Science*

## What are Fossil Fuels?

### Fossil Fuels →

These fuels are found in Earth's crust and contain carbon and hydrogen

- Can be burned for \_\_\_\_\_
- **Forms of Fossil Fuels:**
  - 
  - 
  -

## How are Fossil Fuels Made?

### Very VERY Old!

- Fossil fuels formed in the Earth \_\_\_\_\_ years ago
  - Called "fossil fuel" because they are created from \_\_\_\_\_ a long time ago
- **Steps:**
  - All living things contain carbon
  - Once it dies, it decomposes and sinks into mud or rock
  - The rock build up over a very long period of time
  - Rocks layer up, along with heat and pressure, turning into a fuel we can use

## Fossil Fuel History

All fossil fuels we use today come from periods in Earth's history when the Earth had HUGE \_\_\_\_\_

- Plants lived, grew, and died much faster than they decayed
  - Much of the vegetation did not entirely decompose
  - Because of this, it turned into rock (aka coal)

**Coal** → comes from \_\_\_\_\_

**Oil and Gas** → mainly come from \_\_\_\_\_, such as algae

## What are Fossil Fuels Used For?

Most of the fuels people burn are fossil fuels

- \_\_\_\_\_ → used to produce electricity
- \_\_\_\_\_ → used to make gasoline, kerosene, jet fuel, and diesel fuel
  - Made in an oil refinery
  - Used mostly for \_\_\_\_\_
- \_\_\_\_\_ → used to heat homes and buildings

## Problems with Fossil Fuels

\_\_\_\_\_ → most air pollution comes from burning fossil fuels

- When fossil fuels are burned, they release harmful gasses

\_\_\_\_\_ → burning of fossil fuels is speeding up the process of warming the Earth's atmosphere

\_\_\_\_\_ → there is a limited amount of coal, gas, and oil in the Earth

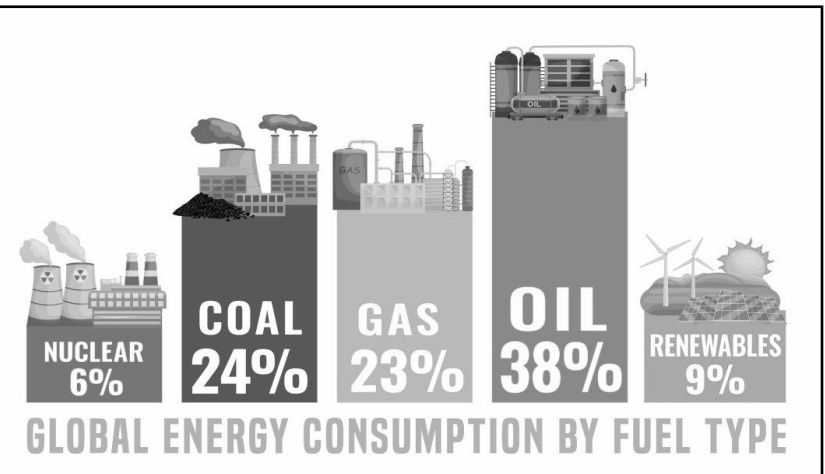
- Scientists predict we will run out of gas and oil in the next \_\_\_\_\_
  - Run out of coal in the next \_\_\_\_\_

## More Problems with Fossil Fuels

Burning of fossil fuels releases \_\_\_\_\_ into air and \_\_\_\_\_

This can lead to many issues around the world:

- Acid rain
- Smog
- Cancer and other severe health-related conditions (ex: asthma)
- Droughts
- Extreme weather (ex: hurricanes)
- Melting of glaciers (and rise of sea level)
- Wildfires (due to lack of rain and rise in temperatures)



## **REFLECTION**

What are the three types of fossil fuels?

What are two problems associated with fossil fuels today?

What are activities you (or your family) do that use fossil fuels?

What can you do differently so you're not using as many fossil fuels?