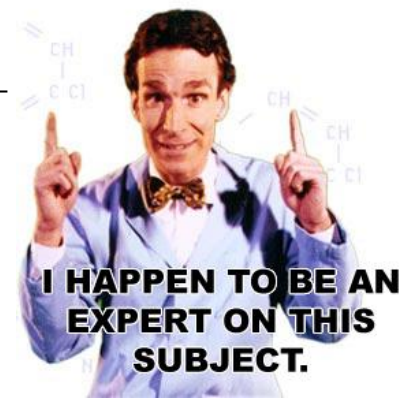


Bill Nye: Greatest Inventions of Energy



Greatest Discoveries with Bill Nye: Energy

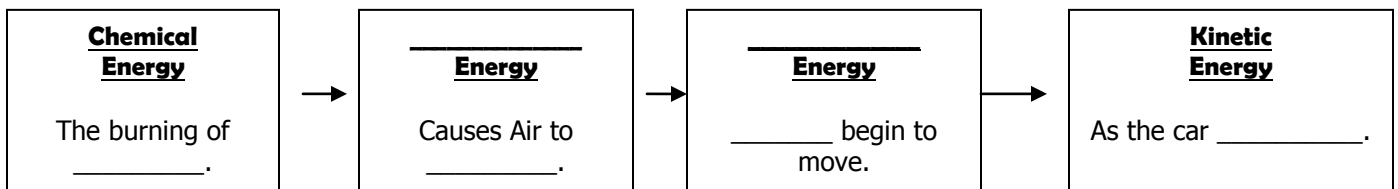
1. List the three major fossil fuels.

1. _____ 2. _____ 3. _____

2. What is combustion?

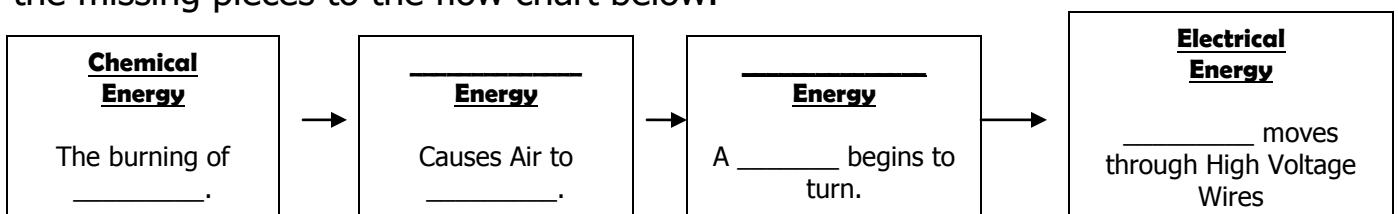
3. How does **internal combustion** work in a car?

(Fill in the missing energy transformations and event descriptions.)



4. What is electrical current?

5. Give a brief description of how electricity is produced in a power plant by filling in the missing pieces to the flow chart below.



6. What is Hydroelectricity? How is it made produced?

7. When the Three Gorges Dam was built in China along the _____ river (which is the largest river). _____ cities were flooded to build the dam. The dam is as long as _____ and is _____ ft deep. It produces more than _____ times as much power as the Hoover dam.

8. Nuclear _____ is joining of atoms, which occurs in the sun and other _____. Nuclear _____ is the splitting of atoms to. The mineral (metal) that is used to produce nuclear energy is _____. The Father of Nuclear Energy is considered to be _____.

There are approximately _____ nuclear power plants (100+ just in the U.S.) which provide _____% of the world's electrical power.

9. Who was **Irene Curie**? What did she create?

10. 4 facts about **solar power**.

a. The Photovoltaic Effect - _____

b. _____

c. _____

d. _____

11. Where should a solar panel be placed on a solar powered house?

12. How big are the largest windmills? _____
One windmill can create 3.6 megawatts of power. Enough to supply electricity to how many homes? _____

13. What liquid is used to make fuel for hydrogen powered cars? _____
Why is that liquid used? _____
Using Hydrogen fuel in cars gives off _____ and _____ instead of _____ (CO₂).

14. Name one energy invention that is coming in the future.

15. List all the ways you have learned that electricity can be produced.