

Name Answer

Period _____

BILL NYE, THE SCIENCE GUY! ENERGY



1. When we do something we are using energy.
2. Energy can be transferred
converted from one form to another.
3. When energy is stored, we call it potential energy.
4. When energy is moving, we call it kinetic energy.
5. When we do something we are using energy.
6. Lifting the tank of water gave it kinetic mechanical energy.

This energy was converted into mechanical energy when the water flowed down the tube.

The water was used to power a generator, creating electric energy.

7. Baking soda plus vinegar gives us a chemical reaction.
8. The cork popped off the bottle because chemical energy was changed to moving (mechanical) energy.



9. In the bowling ball demonstration, we pull the bowling ball back and give it

potential energy.

10. When we release the bowling ball we give it kinetic
mechanical energy.

11. Three substances that can make electricity are:

- 1) Coal (heat released from coal)
- 2) Water (falling water turns turbine)
- 3) Nuclear (heat created from fission)
- 4) Wind (turns wind mills)
- 5) Solar (solar cells turned into electricity)



12. A laser converts electrical energy into thermal energy by making gas molecules vibrate.

13. Fossil fuels are something that we pump or dig up.

14. The energy we get from foods which began as light energy from the sun.

15. Only about 40 % of your body's chemical energy is used to move around.

The rest is turned to thermal energy

16. Whenever energy is converted from one form to another a little bit of it ends up as heat (thermal energy)

Thought Question for AFTER the movie:

18. Why didn't the bowling ball pendulum hit Bill Nye in the face?

• lost energy to thermal energy

19. Two interesting things you learned today: