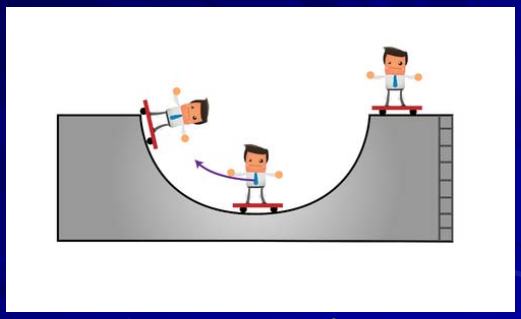
TA15A –Teach About

Energy, Conservation and Conversion

Use with BrishLab ES15A
Done By: Coach

1- Describe each the two forms of energy, potential and kinetic.

Page 1
Para 2



Energy comes in two forms –
Kinetic (moving) and Potential (stored).

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2- Why should we conserve our energy resources?

Page 1
Para 3

Some resources – non renewable ones, take over a lifetime to become available again.
Some take millions of years!

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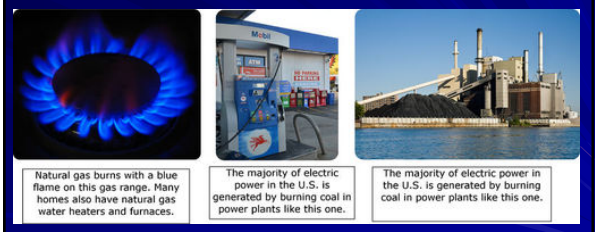
3- What makes a fuel nonrenewable?

Page 1
Para 4



Natural gas burns with a blue flame on this gas range. Many homes also have natural gas water heaters and furnaces.

The majority of electric power in the U.S. is generated by burning coal in power plants like this one.

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Nonrenewable resources take a lifetime to millions of years to develop.

Image Link

4- Give an example of potential energy that involves a rock.

Page 1
Para 5

The rock in the sling shot has the potential energy of the stretched rubber to cause potential harm.

Image Link

5- Give an example of kinetic energy that involves a rock.

Page 1
Para 6

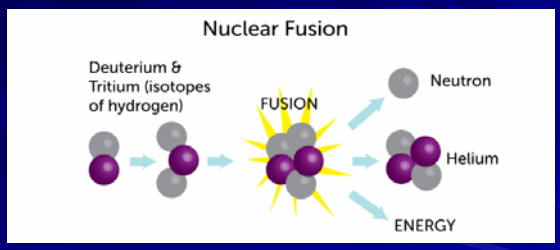
Once the rock is let go, the potential energy is converted into kinetic energy – the energy of motion.

Image Link

6- What are five (mechanical is one) of the general energy groups?

Page 1

Para 7



Energy comes in several forms, mechanical, chemical electrical and electro mechanic, thermal, and nuclear.

Image Link

7- What is the "Law of Conservation of Energy"?

Page 2

Para 8

Energy can neither be created nor destroyed - only changed.

Image Link

8- What are five renewable energy sources?

Page 2

Para 9

Some renewable energy sources include wind, water, solar, biomass and geothermal.

Image Link

9- What are four nonrenewable energy sources?

Page 2

Para 10

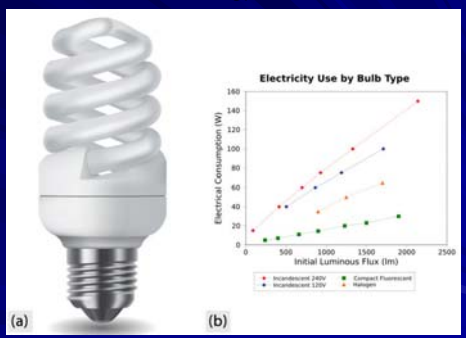
Some nonrenewable energy sources include coal, oil, natural gas, and nuclear.

Image Link

10- How can we conserve energy?

Page 2

Para 12



We cn conserve energy by using less energy, using energy more efficiently – or both!

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Wrap it up:

Draw and color a renewable and a nonrenewable energy source.

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