**Forms of Energy**

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| Column A | Column B | Column C |
| Kinetic | stored energy. It is possessed by things when they are compressed, twisted, flexed or wound up in some way. Objects which have EPE include | fall to the bottom of the cliff. So has a pencil which is standing on its end and water at the top of a waterfall. |
| Gravitational potential energy (GPE) | matter by compression waves. Sound energy will not travel through a vacuum because there is no matter in a vacuum | matter by conduction, through liquids and gases through convection and through gases and a vacuum by radiation. |
| Chemical potential energy is another form | particles. The most useful form of this energy is electrical current, which is | it for photosynthesis, and with laser light we can cut through thick steel, do delicate eye operations or bounce messages off the moon. |
| Elastic potential energy is another form of | or fused together. If this energy is controlled it can be used to produce large amounts of electrical or heat energy, but | from fuels when they are burnt. All substances have this form of energy. |
| Electrical energy is energy due to charged | of the particles of matter. The faster the particles are moving, the more energy the matter has. Heat energy travels through solid | so has a falling leaf, a swimming fish and a running person. |
| Sound energy is energy which travels through | is a form of stored energy. A rock on a cliff face has GPE because it can | clock springs, stretched rubber bands, bent rulers and a bow ready to fire an arrow. |
| Heat energy is a special form of kinetic energy. Heat energy is energy which matter possesses because of the movement | energy is energy possessed by moving objects. A moving train has kinetic energy, | to carry the waves. Any vibrating object, such as a violin string, or a drum skin, will produce this energy. |
| Light energy is a form of electromagnetic energy. It is perhaps our most | of stored energy. It is energy stored in the chemical bonds of all substances. It is released | a flow of electrons from one place to another. Appliances like toasters, radios, ovens and motors use this form of energy. |
| Nuclear energy is the energy released when the structure of atoms is changed by being split | useful form of energy. We need it to see, plants need | uncontrolled it can be disastrous. |

Match the descriptions of nine forms of energy below, using one box from each column.

The first one has been done for you.

**Forms of Energy Revision**

Summarise each of the descriptions on the other side of the page using your own words.

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