Electricity Circle the correct word.

1.	magnihtihk fild	magnetic field	magnetic feeld	magnitic field
2.	curren	currunt	currint	current
3.	generator	jehnuaytur	jehnurayturr	generater
4.	resistoor	resistar	resistor	rusistar
5.	lodestonne	ladestone	lodestoni	lodestone
6.	insulator	insulato	insulater	insulatar
7.	compass	cimpess	campass	compess
8.	fyoo	fuse	fus	fooz
9.	elecricity	electricity	electricety	electicity
10.	ihlehktrahmagnuht	olectremugnet	electromagnet	eletromagnet
11.	swihh	switc	switch	swich
12.	electric feld	electric field	eletric field	electic fild
13.	magnit	magnet	magneet	megnuht
14.	chargu	charge	cherge	chargi
15.	sihreez circuit	sihreaz ciriut	sereis circeut	series circuit
16.	conducter	conductor	canductor	conductar
17.	magnetic poles	megnetic polles	megnetic poles	magnetic pohl
18.	static electricity	stotohk electricity	staic ihlehktrihsuhttee	static ihlehktrehsuhtee
19.	parallel circuet	pehruuhlehl circuit	perallel circiutt	parallel circuit
20.	cicuit	circuet	serkuht	circuit
21.	ampeere	ampere	ampee	apere

Circuits & Switches

Match the words in the first column to the best available answer in the second column.							
Electric Charge	1)the particular purpose or task a circuit is designed to complete						
Electrical Current	2)the movement of electrons from one atom to another						
Electrical Load	3)the condition of having an excess or deficiency of electrons						
Switch	4)current that only moves in one direction						
AC Power Adapter	5)a device used in a circuit to temporarily store electricity						
Alternating Current (AC)	6)current that changes direction on a regular time interval						
Capacitor	7)a material that when combined with some other material can be turned into an insulator or a conductor						
Charge	8) the flow of electrons from one place to another						
Conductor	9)the control unit placed in a circuit that provides the ability to open or close the circuit						
Current	10)a diode that produces light when current moves through it						
Diode	11)a device used to limit the flow of electricity to one						

direction

 Direct Current (DC)	12)a particle that is held loosely in orbit around the atom's nucleus
 Electron	13)the potential of electrons or protons to attract each other
 Insulator	14) converts alternating current to direct current
 Light Emitting Diode (LED)	15)a material that does not let electricity flow through it
 Resistor	16)a type of switch that contains no moving parts and uses electricity to turn itself on and off
 Transistor	17) any material that allows electrons to flow through it
 Semiconductor	18)a device that impedes the flow of electrons

Crack the Code

Each of the words below have been changed using a secret code. For example, A might be represented by the letter Z or F. The code is the same for every word. Crack the code for each word. HINT: The letter 'r' is really the letter 's'!

A	B	C	D	E	F	G	Η	Ι	J	Κ	L	Μ	N	0	P	Q	R	S	Τ	U	V	W	Χ	Y	Ζ

1. RAIAYVBLBVAEYVYAS	2. VHQCUVAHE
3. EBRYRAHE	4. VDIEGB
5. VHZMIRR	6. ZIGQBAYVFYBLC
7. MIEILLBLVYEVUYA	8. RBEYBRVYEVUYA
9. BLBVAEYVYAS	10. BLBVAEHZIGQBA
11. IZMBEB	12. YQRULIAHE
13. VYEVUYA	14. RJYAVD
15. FURB	16. ZIGQBAYVMHLBR
17. THLAIGB	18. LHCBRAHQB
19. BLBVAEYVFYBLC	20. GBQBEIAHE

Matching Circuits Match the words in the first column to the best available answer in the second column.

 switch	1) energy source for a circuit
 _ battery	2) measures the potential difference across any two points of a circuit
 _ resistor	3) ratio of potential energy to current
 _ voltmeter	4) potential energy per unit of charge
 _ ammeter	5) converts electric energy into other forms
 potential - difference	6) a device for closing and opening a circuit
 _ current	7) measure the current flowing through a circuit
 _ resistance	8) a flow of electric charge

Word List							
alternating current ampere charge circuit compass conductor direct current	electric field electricity electromagnet fuse generator ground insulator	kilowatt-hour lightning rod lodestone magnet magnetic field parallel circuit resistor	series circuit short circuit static electricity voltage				

Multiple Choice

Select the definition that most nearly defines the given word.

1.	 Generator A machine that produces electricity by changing energy of motion into electrical energy. Material that allows current to easily flow. An electric circuit that has only one path for the current. An object with two poles that attracts iron and steel.
2.	 charge A path that allows most of the current in an electric circuit to flow around or away from the principal elements or devices in the circuit. A measure of the amount of electricity in an atom that is determined by the extra positive or negative particles that an atom has. C The amount of energy used when you consume one kilo-watt of power in one hour. D An electric current that reverses its direction of flow at regular intervals.
3.	 fuse The force that pushes electricity or a current. In most homes this force is 110 volts. A piece of metal that stands at the highest point of a building and is connected to the Earth. The purpose of the piece of metal is to ground the large amount of electrical energy in the event of a lightning strike.

	 C A safety device placed in an electric circuit. This contains a metal strip that melts when overheated. D A magnet created when electric current flows through a coil of wire.
4.	Image: Indestone Image: Im
5.	 short circuit The space around a magnet where the force of the magnet can be felt. A path that allows most of the current in an electric circuit to flow around or away from the principal elements or devices in the circuit. A machine that produces electricity by changing energy of motion into electrical energy. The area around charged particles where electric forces occur.
6.	 lightning rod An electric current flowing only in one direction. A piece of metal that stands at the highest point of a building and is connected to the Earth. The purpose of the piece of metal is to ground the large amount of electrical energy in the event of a lightning strike. Material that slows down or resists the flow of current. These are used in electric circuits to help control the flow of current. An electrical connection that allows electrons to be carried away in the event of a problem.
7.	 kilowatt-hour Material through which a current cannot pass or easily flow. The amount of energy used when you consume one kilo-watt of power in one hour. A closed path along which electricity flows. A unit used to measure current.
8.	series circuitThis has a magnetized needle that is attracted to the earth's north magnetic

	pole. B An electric circuit that has only one path for the current.
	C A charge that stays on an object instead of flowing in a current.
	• The area around charged particles where electric forces occur.
9.	compass An electric circuit that has only one path for the current.
	• This has a magnetized needle that is attracted to the earth's north magnetic pole.
	C Material that slows down or resists the flow of current. These are used in electric circuits to help control the flow of current.
	D The amount of energy used when you consume one kilo-watt of power in one hour.
10.	 Parallel circuit A safety device placed in an electric circuit. This contains a metal strip that melts when overheated.
	(B) An electric circuit that has more than one path for the current.
	C A unit used to measure current.
	• The space around a magnet where the force of the magnet can be felt.
11.	electric field The area around charged particles where electric forces occur.
	(B) An electric current flowing only in one direction.
	C This has a magnetized needle that is attracted to the earth's north magnetic pole.
	The force that pushes electricity or a current. In most homes this force is 110 volts.
12.	 conductor A charge that stays on an object instead of flowing in a current. Material that allows current to easily flow. An object with two poles that attracts iron and steel.
	D A hard, black, naturally magnetic rock.

Vocabulary Matching						
	Wa	ord List				
alternating current ampere charge circuit direct current electric field	electricity electromagnet fuse generator ground insulator	lodestone magnet magnetic field parallel circuit resistor series circuit	short circuit static electricity voltage			

Matching

Match each definition with a word.

1.	A hard, black, naturally magnetic rock.	2.	An electric current that reverses its direction of flow at regular intervals.
3.	A path that allows most of the current in an electric circuit to flow around or away from the principal elements or devices in the circuit.	4.	A unit used to measure current.
5.	An object with two poles that attracts iron and steel.	6.	A safety device placed in an electric circuit. This contains a metal strip that melts when overheated.
7.	An electric circuit that has more than one path for the current.	8.	An electric current flowing only in one direction.
9.	A magnet created when electric current flows through a coil of wire.	10.	The area around charged particles where electric forces occur.

11.	The space around a magnet where the force of the magnet can be felt.	12.	An electric circuit that has only one path for the current.
13.	Material that slows down or resists the flow of current. These are used in electric circuits to help control the flow of current.	14.	Energy formed by the motion of protons and electrons.
15.	A measure of the amount of electricity in an atom that is determined by the extra positive or negative particles that an atom has.	16.	A closed path along which electricity flows.
17.	Material through which a current cannot pass or easily flow.	18.	A machine that produces electricity by changing energy of motion into electrical energy.
19.	An electrical connection that allows electrons to be carried away in the event of a problem.	20.	A charge that stays on an object instead of flowing in a current.
21.	The force that pushes electricity or a current. In most homes this force is 110 volts.	22.	This has a magnetized needle that is attracted to the earth's north magnetic pole.

Match - Up

Match the words in the first column to the best available answer in the second column.

 insulator	1) a deficiency of electrons
 _ induction	2) a device for detecting the presence of electric charge
 _ charged	3) a term referring to matter having an excess or deficiency of electrons
 _ electroscope	4) a material that does not allow electric charges or heat to move freely on or through it
 lightning - rod	5)an electric discharge caused by electrons jumping from one conductor to another through the air
 _ ground	6) to connect a conductor through some conducting material directly to the Earth
 _ positive	7) the process by which an object having an electric charge produces the opposite charge in a neighbouring object without actually touching it
 _ spark	8) a metal rod or wire attached to a building to prevent lightning damage by conducting the electrons to the ground
 Potential difference	9) ohm
 _ resistance	10)) ampere
 _ energy	11) joule
 _ charge	12) coulomb
 _ current	13) volt