

A. Look at these sentences and decide which object is being described in each one. Use the words in bold to help you. You will find the objects hidden in the word grid at the bottom of the page.

1. The most important part of this object is a strip of two different metals, one on top of the other. As they **heat up**, both metals **expand**, but one does it faster than the other. The strip **bends and connects** with a switch, which turns off the power supply. When the strip **cools down**, the metals **contract** and the switch is **disconnected**. (1 word)

2. This object has several **component parts**, most of which are made of plastic. A disc inserted into the object **spins** quickly. At the same time a thin beam of light **strikes** the disc and **converts** digital symbols into sounds. These sounds can be **increased or decreased** in volume by means of a button or dial.(3 words)

3. Liquid and gas are **compressed** in a hard metal tube. This can be **released by pushing or squeezing** a button which **opens** a valve. When the liquid-gas combination **leaves** the tube and is mixed with oxygen, it rapidly **expands**. (1 word)

4. This object is mainly **made** of aluminium. As it **moves** forward, air **flows** over two horizontal sections. As it **accelerates**, a vacuum is formed over the horizontal sections and the object is pulled into the air by the force of this vacuum. (1 word)

5. This object consists of two main parts; one is made mainly of plastic and metal, the other is made mainly of glass. Light **enters** the glass section and a small door in the device **opens** up when a button is **pressed**. At the same time, a smaller window called an aperture **adjusts** itself to control the amount of light. The light is then **absorbed** by a sheet of plastic coated in a special chemical. An image is **formed** and this can then be **processed and developed** into a two-dimensional paper-based object. (1 word)

6. A sharp blade inside a plastic container **rotates** very quickly. It **chops or grinds** anything it touches, which we can then use to **produce** soup, sauces and dressing. (2 words)

7. This is a very simple object which originated in China. A small piece of paper is **lit** with a match. It **burns** away until the flame **ignites** the chemical compound inside a cardboard tube. The result is a display of light and colour. (1 word)

B. There are nine more objects hidden in the grid. Choose four of them and write a brief description of how they work, using the bold words and expressions above.

Q	C	A	R	E	N	G	I	N	E	W	E	R	T	T	Y	U
A	S	D	F	G	H	J	K	L	Z	X	C	V	B	O	N	M
B	A	L	L	P	O	I	N	T	P	E	N	A	Q	A	C	W
Q	W	E	R	F	O	O	D	P	R	O	C	E	S	S	O	R
B	T	Y	U	I	O	P	A	S	D	F	G	R	K	T	M	J
I	A	M	N	B	K	E	T	T	L	E	V	O	C	E	P	T
C	E	C	X	Z	L	K	J	H	G	F	D	S	S	R	U	H
Y	R	S	A	P	O	I	U	Y	T	R	E	O	E	W	T	E

C	O	M	P	A	C	T	D	I	S	C	P	L	A	Y	E	R
L	P	L	K	J	H	G	F	D	S	A	Q	W	E	R	R	M
E	L	I	G	H	T	B	U	L	B	M	N	B	V	C	X	O
C	A	M	E	R	A	I	F	I	R	E	W	O	R	K	U	S
L	N	K	J	H	G	F	D	S	A	Q	W	E	R	T	Y	T
T	E	L	E	V	I	S	I	O	N	T	Y	U	I	O	P	A
M	I	C	R	O	W	A	V	E	O	V	E	N	N	G	E	T

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ANSWERS

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B	A	L	L	P	O	I	N	T	P	E	N	A	Q	A	C	W
Q	W	E	R	F	O	O	D	P	R	O	C	E	S	S	O	R
B	T	Y	U	I	O	P	A	S	D	F	G	R	K	T	M	J

I	A	M	N	B	K	E	T	T	L	E	V	O	C	E	P	T
C	E	C	X	Z	L	K	J	H	G	F	D	S	S	R	U	H
Y	R	S	A	P	O	I	U	Y	T	R	E	O	E	W	T	E
C	O	M	P	A	C	T	D	I	S	C	P	L	A	Y	E	R
L	P	L	K	J	H	G	F	D	S	A	Q	W	E	R	R	M
E	L	I	G	H	T	B	U	L	B	M	N	B	V	C	X	O
C	A	M	E	R	A	I	F	I	R	E	W	O	R	K	U	S
L	N	K	J	H	G	F	D	S	A	Q	W	E	R	T	Y	T
T	E	L	E	V	I	S	I	O	N	T	Y	U	I	O	P	A
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