

# 7 Invent It!

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- 7.1 invent** (v) /ɪn'vent/  
make or design sth that has not been made before • *Who invented the phone? Was it Alexander Graham Bell?* > inventor (n), invention (n), inventive (adj)
- 7.2 device** (n) /dɪ'vaɪs/  
an object that is used for a particular purpose • *A torch is a useful device that helps us see at night outside.*
- 7.3 robotic** (adj) /rəʊ'bɒtɪk/  
made as a robot; controlled by a computer • *The company uses machines with robotic arms to make cars.* > robot, robotics (n)
- 7.4 jockey** (n) /'dʒɒki/  
sb who rides a horse in a race • *The jockey nearly fell off his horse in the middle of the race.* > jockey (v)
- 7.5 Oman** (n) /əʊ'mɑːn/  
> Omani (n, adj)

## Reading

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- 7.6 invention** (n) /ɪn'veɪʃn/  
sth new that sb has created that has never been made before • *The telephone was an important invention. It changed the way people communicate.* > invent (v), inventor (n), inventive (adj)
- 7.7 dark** (n) /dɑːk/  
the state of being without light • *Cats and bats can see in the dark.* > darken (v), darkness (n), dark (adj)
- 7.8 usefulness** (n) /'juːsɪfəl'nəs/  
the fact of being helpful to do sth • *I'm not sure about the usefulness of remote controlled lights in the house.* > use (v, n), useful (adj)
- 7.9 useful** (adj) /'juːsɪfəl/  
helping to do sth • *Smartphones are useful for sending photos and information.* > use (v), use, usefulness (n)

## Word Focus

## Page 84

- 7.10 eco-friendly** (adj) /,iːkəʊ 'frendli/  
not dangerous to the environment • *Electric cars are eco-friendly because they don't need petrol.*
- 7.11 environment** (n) /ɪn'vaɪrənmənt/  
the air, water, land around us • *We must protect the environment and not throw litter everywhere.* > environmental (adj), environmentally (adv)

- 7.12 preserve** (v) /prɪ'zɜːv/  
prevent food from going bad by treating it in a particular way • *You can preserve fruit by cooking it with sugar.* > preservative (n), preservation (n)
- 7.13 fresh** (adj) /freʃ/  
produced or picked not long ago • *I love eating fresh bread from the bakery.* > freshen (v), freshness (n), freshly (adv)
- 7.14 resist** (v) /rɪ'zɪst/  
not be harmed by sth; try not to do sth that you want to do • *My tent is made of material that can resist the rain.* > resistance (n)
- 7.15 biodegradable** (adj) /,baɪəʊdɪ'greɪdəbl/  
able to be broken down naturally into small parts as part of nature • *This box is made of biodegradable paper.*  
🗑️ Opp: non-biodegradable
- 7.16 organism** (n) /'ɔːgənɪzəm/  
a living thing • *Hundreds of tiny organisms live in a piece of cheese.*
- 7.17 hiccups** (n) /'hɪkɪps/  
sounds that come from your throat when you eat sth too quickly • *Tricia got hiccups after drinking a big glass of fruit juice.* > hiccup (v)
- 7.18 throat** (n) /θrəʊt/  
the part of the body inside the neck that food and drink goes through • *Nadia didn't feel well because her throat hurt.*
- 7.19 lollipop** (n) /'lɒlɪpɒp/  
a sweet on a stick • *Do you want an ice cream or an ice lollipop?*
- 7.20 earthquake** (n) /'ɜːθ,kweɪk/  
shaking of the ground • *Rescue workers saved the family from the building that fell down in the earthquake.*
- 7.21 sudden** (adj) /'sʌdn/  
happening very quickly when you don't expect it • *The sudden change of weather stopped us having a barbecue.* > suddenly (adv)
- 7.22 violent** (adj) /'vaɪələnt/  
acting in a way that can hurt sb/sth • *Don't annoy the cat because it might get violent.* > violence (n)
- 7.23 movement** (n) /'muːvmənt/  
going from one place to another • *We saw a movement in the sea near the boat and then the dolphins appeared.* > move (v, n), movable (adj)

# Reading

Pages 84–85

- 7.24 inventor** (n) /ɪn'ventə(r)/  
sb who has an idea to make sth that nobody made before • *Tim Berners-Lee was the inventor of the Internet.* > invent (v), invention (n), inventive (adj)
- 7.25 win** (v) /wɪn/  
be the best in a race, competition, etc.  
• *Uncle Fred won a car in a TV phone-in quiz.*  
> win, winner (n)
- 7.26 normally** (adv) /'nɔːməli/  
usually • *I normally get up early, but today I woke up at 10 o'clock.* > normal (adj)
- 7.27 technology** (n) /tek'nɒlədʒi/  
the science used to discover and design new things • *Modern technology helps us to do jobs at home more easily and quickly.*  
> technological (adj)
- 7.28 UV** (n) /juː'viː/  
ultraviolet; a type of light from the sun or a special lamp • *A UV light can read hidden information from bank cards.*
- 7.29 technique** (n) /tek'niːk/  
a particular way of doing sth, especially sth that needs a special skill • *Firefighters learn special techniques to save people from fires.*  
> technical (adj), technically (adv), technician (n)
- 7.30 chemical** (n) /'kemɪkl/  
a substance made through a chemical process  
• *Fish can't live in this lake because it's full of chemicals.* > chemical (adj)
- 7.31 instead of** (prep) /ɪn'sted əv/  
in the place of sth/sb else • *Theo cycles to work instead of driving his car.* > instead (adv)
- 7.32 plastic** (n) /'plæstɪk/  
a strong material made from oil that is processed • *It's better to take your own shopping bag instead of using bags made of plastic.* > plastic (adj)
- 7.33 plate** (n) /pleɪt/  
a flat dish to put food on • *I ate some pizza and a plate of salad.*
- 7.34 unlike** (prep) /,ʌn'laɪk/  
different from; not like • *Unlike other birds, penguins can't fly.*
- 7.35 cure** (n) /kjʊə(r)/  
sth that makes an illness stop so sb feels healthy again • *Sleep is the best cure for feeling tired!* > cure (v), curable (adj)
- 7.36 cider** (n) /'saɪdə(r)/  
a drink made from apple juice • *Cider is a common drink, especially in the south of England.*

- 7.37 vinegar** (n) /'vɪnɪgə(r)/  
a liquid made from wine, grain or cider that is used to flavour food • *Put some oil and vinegar on the salad before you serve it.*
- 7.38 earthworm** (n) /'ɜːθwɜːm/  
a worm that lives in the ground • *Grandpa says that earthworms are good for the garden, so we don't harm them.*
- 7.39 teenage** (adj) /'tiːneɪdʒ/  
aged between 13 and 19 years old • *Stephen lived in Manchester during his teenage years before he started working.* > teen, teenager (n)
- 7.40 prototype** (n) /'prəʊtətaɪp/  
the first design of sth new that is a model for similar things made later • *The company made the prototype for the first electric car.*
- 7.41 destroy** (v) /dɪs'trɔɪ/  
damage sth so badly that it can't be used; ruin • *We are destroying the environment by throwing away so much plastic.* > destruction (n), destructive (adj)
- 7.42 dentist** (n) /'dentɪst/  
sb who takes care of people's teeth as a job  
• *The dentist checks my teeth every six months.* > dental (adj)
- 7.43 machine** (n) /mə'ʃiːn/  
sth that has moving parts and works with power from electricity, etc. to do a job • *Our washing machine is 15 years old, but it still washes clothes well.*

# Vocabulary

Pages 86–87

- 7.44 computer screen** (n) /kəm'pjʊːtə skriːn/  
a flat surface that you can see pictures and information on from a computer • *The photos from her camera looked great on the computer screen.*
- 7.45 handle** (n) /'hændl/  
a part of a door, window, etc., that you move to open it; a part of an object that you use to hold it • *She turned the handle to open the door, but it was locked.* > handle (v)
- 7.46 earphones** (n) /'ɪfəʊnɪz/  
a device you wear in your ears to listen to a phone, radio, etc., without other people hearing • *Rick is listening to music from his tablet through his earphones.*
- 7.47 remote control** (n) /rɪ,məʊt kən'trəʊl/  
a device that sb can use to control a machine from a distance • *The cameras outside the building work by remote control.* > remote-controlled (adj)
- 7.48 charger** (n) /'tʃɑːrʒə/  
a device for putting electricity into a battery  
• *Can I use your phone charger? I need to charge my smartphone.* > charge (v), charge (n)

- 7.49 plug in** (phr v) /plʌg ɪn/  
connect a machine to an electric source  
• *You can plug in your phone charger on the wall next to the computer.* > plug (v, n)  
📎 Opp: unplug
- 7.50 turn on** (phr v) /tɜːn ɒn/  
switch on • *It's time for the news. Can you turn on the car radio?*
- 7.51 television** (n) /ˈtelɪvɪʒn/  
a machine with a screen that you can watch programmes on; a TV • *This old television works very well. I don't need a new one with a giant screen.*
- 7.52 turn off** (phr v) /tɜːn ɒf/  
switch off • *Please turn off all the lights and close the doors before you go out.*
- 7.53 metal** (n) /ˈmetl/  
a very hard shiny material (e.g. steel, iron, gold) used to make tools, machines, etc.  
• *This bike is made of light metal so it can move quickly.* > metallic (adj)
- 7.54 wood** (n) /wʊd/  
the material that comes from trees • *The famous Trojan Horse was made of wood.*  
> wooden (adj)
- 7.55 glass** (n) /glæs/  
a clear material made from sand, used to make windows, etc. • *These windows are made of a special kind of glass that doesn't break.* > glass, glaze (v)

### Materials

chemical	plastic
glass	wood
metal	

- 7.56 rectangular** (adj) /rekˈtæŋgjələ(r)/  
in a shape with two long parallel sides and two shorter sides • *Florence's phone has rectangular screen that is 12 cm long and 7 cm wide.* > rectangle (n)
- 7.57 square** (adj) /skweə(r)/  
shaped with four sides of the same size  
• *There's a square table in the kitchen.*  
> square (n)
- 7.58 silver** (adj) /ˈsɪlvə(r)/  
a white or grey metal, used to make money, jewellery, etc. • *Dad gave Mum a lovely silver necklace as a present.* > silver (n)
- 7.59 round** (adj) /raʊnd/  
shaped like a circle • *There's a round clock at the top of the tower.* > round (v, n)
- 7.60 oval** (adj) /ˈəʊvl/  
shaped like an egg • *The salad was on an oval dish in the middle of the table.* > oval (n)

- 7.61 enormous** (adj) /ɪˈnɔːməs/  
very large • *They live in an enormous house that has twelve rooms and a swimming pool.*
- 7.62 compass** (n) /ˈkʌmpəs/  
a small, round device that points to north to help find directions • *Ursula's phone was off, so she found the path by using a map and her old compass.*

### Adjectives

biodegradable	round
eco-friendly	shiny
enormous	silver
fresh	square
full	sudden
oval	useful
rectangular	violent
robotic	

## Grammar

Pages 88–89

- 7.63 pencil sharpener** (n) /ˈpensl ʃɑːpənə(r)/  
sth used to make pencils sharp • *Take your pencil sharpener to school. Your pencil might break during the lesson.*
- 7.64 solar system** (n) /ˈsəʊlə sɪstəm/  
a group of planets that moves around the same star, which is their sun • *Do you know how many planets are in our solar system?*
- 7.65 wheel** (n) /wiːl/  
a round object that helps a vehicle move along the road • *Alan's bike hit a rock and one of the wheels fell off.* > wheel (v)
- 7.66 rocket** (n) /ˈrɒkɪt/  
a long, thin spacecraft; a kind of bomb that moves very fast through the air • *What year did the first rocket travel in space around Earth?* > rocket (v)
- 7.67 dishwasher** (n) /ˈdɪʃwɒʃə(r)/  
a machine for washing cups, plates, etc.  
• *The dishwasher wasn't working, so Nigel washed all the dishes by hand.*
- 7.68 drone** (n) /drəʊn/  
a device like a small helicopter with a camera that flies by remote control; a small plane with no pilot moved by a remote control from a computer • *We used a drone to take some amazing photos and videos of the castle from the air.* > drone (v)
- 7.69 scientist** (n) /ˈsaɪəntɪst/  
sb who studies science and works to find out more about sth scientific • *Scientists say that the ice in the Arctic and Antarctic is melting.*  
> science (n), scientific (adj)

- 7.70 GPS** (n) /dʒiː piː es/  
a device that shows the position of sb/sth on a map; global positioning system • *We found the road easily because our GPS showed us where we were.*
- 7.71 pilot** (n) /'paɪlət/  
sb who flies a plane • *The pilot flew the plane up through the clouds.* > pilot (v)

### People

dentist	jockey
engineer	pilot
inventor	scientist

- 7.72 predict** (v) /prɪ'dɪkt/  
say that sth will happen in the future • *Can you predict where you will be in twenty years from now?* > prediction (n)
- 7.73 upstairs** (adv) /,ʌp'steəz/  
on/to the floor of a building above the one where sb is • *The house has three bedrooms upstairs.* > upstairs (adv)  
👉 Opp: downstairs
- 7.74 telescope** (n) /'telɪskəʊp/  
a device that makes faraway things look close so sb can look through it and see them clearly • *Sheila looked through the telescope and saw the moon up close.* > telescopic (adj)
- 7.75 toothbrush** (n) /'tuːθbrʌʃ/  
a small brush for cleaning teeth • *Don't forget to take your toothbrush on the camping trip.*
- 7.76 suitcase** (n) /'suɪtkes/  
a large bag with flat sides that you can pack clothes in to take for travelling • *Salman packed his clothes into his suitcase and took a taxi to the airport.*

## Listening

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- 7.77 floor** (n) /flɔː(r)/  
the part of a room that sb walks on • *The glass fell on the stone floor and broke.*
- 7.78 anywhere** (adv) /'eniweə(r)/  
in any place (usually used in questions and negative sentences) • *I can't find my sunglasses anywhere.*
- 7.79 movie** (n) /'muːvi/  
a film • *Let's watch a movie on TV tonight.*
- 7.80 function** (n) /'fʌŋkʃn/  
the use or purpose of sth • *What is the function of an MP3 player? Does it play music?* > function (v), functional (adj)

## Speaking

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- 7.81 exhibition** (n) /,eksɪ'bɪʃən/  
a show of paintings, interesting objects, etc. that people can go to see • *Keira is having an exhibition of her photographs next week.* > exhibit (v, n)
- 7.82 floor** (n) /flɔː(r)/  
the rooms on one level of a building • *Our company office is on the second floor.*
- 7.83 space** (n) /speɪs/  
the place beyond the Earth's atmosphere • *You can look into space and see stars clearly with a telescope.*
- 7.84 lift** (n) /lɪft/  
a machine that moves people and things to a higher level in a building • *Let's use the lift to go up to the sixth floor.* > lift (v)
- 7.85 flight** (n) /flaɪt/  
travel in the air; a journey by plane, helicopter, etc. • *The documentary showed the flight of an eagle above the mountains.* > fly (v)
- 7.86 ground floor** (n) /,graʊnd flɔː(r)/  
the part of a building that is on the same level as the ground where you enter it • *We live on the ground floor and we've got a small garden outside.*
- 7.87 entrance** (n) /'entrəns/  
the place that leads to a building or room • *Wait for me outside the entrance to the exhibition centre.* > enter (v), entry (n)
- 7.88 science** (n) /'saɪəns/  
the study of how things work in nature and how to create things in the world • *Irene wants to study science to become an inventor one day.* > scientist (n), scientific (adj)

## Writing

Pages 92–93

- 7.89 illustration** (n) /,ɪlə'streɪʃn/  
a picture • *This book about flowers is full of colourful illustrations.* > illustrate (v), illustrator (n)
- 7.90 sundial** (n) /'sʌndaɪəl/  
a kind of clock that shows the time by the position of a shadow made when the sun shines • *The group agreed to meet beside the old sundial in the town square.*
- 7.91 typewriter** (n) /'taɪpraɪtə(r)/  
a machine used to write on paper by pressing metal keys • *My grandmother didn't have a laptop at university, so she wrote her homework with a typewriter.*
- 7.92 gramophone** (n) /'græməfəʊn/  
an old machine that played music from records • *Years ago, my grandparents listened to music on their gramophone.*

- 7.93 electricity** (n) /ɪˌlekˈtrɪsəti/  
energy that moves through wires to give power to machines, lights, etc. • *I can't switch on the computer because the electricity is off.*  
> electric (adj)
- 7.94 sharpen** (v) /'ʃɑ:pən/  
make sth sharp at the point or edge • *This pencil doesn't write. I need to sharpen it.*  
> sharpener (n), sharp (adj)
- 7.95 pencil case** (n) /'pensl keɪs/  
a small bag or box for pencils, pens, etc.  
• *Make sure your sharpener is in your pencil case for school.*
- 7.96 MP3 player** (n) /,em pi: 'θri: pleɪə(r)/  
a small, portable device that you can transfer information or music into from a computer  
• *Andy puts music on his MP3 player to listen to on the bus.*
- 7.97 finger** (n) /'fɪŋgə(r)/  
one of the five long thin parts of a hand • *You can write on your smartphone by using your finger on the screen.*
- 7.98 wrist** (n) /rɪst/  
a part of the body between the arm and the hand • *Shirley usually uses her computer for ten hours a day, so now her wrist hurts a lot.*
- 7.99 fit** (v) /fɪt/  
be the correct size for sb/sth • *My feet hurt because these new boots don't fit me very well.* > fit (n)

- 7.104 Fitbit** (n) /'fɪtbɪt/  
a make of watch that can also measure heartbeat, etc. • *Runners can wear a Fitbit to check their speed and how fast their heart beats during training.*
- 7.105 walking stick** (n) /'wɔ:kɪŋ stɪk/  
a long piece of wood or metal that sb uses to help them walk • *Grant uses two walking sticks to help him go up hills when he walks in the country.*

### Technology: Nouns

brake	pencil sharpener
charger	prototype
compass	remote control
computer screen	rocket
cooker	science
device	solar system
dishwasher	space
drone	speed
earphones	sundial
electricity	technique
GPS	telescope
gramophone	television
handle	typewriter
invention	UV
lift	walking stick
machine	wheel
MP3 player	

### Verbs

destroy	preserve
fit	resist
invent	sharpen
plug in	turn on/off
predict	win

- 7.100 solar** (adj) /'səʊlə(r)/  
using power from the sun's heat or light  
• *In our house, we use solar energy to get hot water.*
- 7.101 cooker** (n) /'kʊkə/  
a piece of equipment for cooking food on or in  
• *The cooker isn't working so we can't make roast chicken for dinner.* > cook (v, n)
- 7.102 shiny** (adj) /'ʃaɪni/  
bright and smooth • *Tony's dirty old car was shiny and clean again after he washed it.*  
> shine (v)
- 7.103 nutribullet®** (n) /,nju:tri'bʊlɪt/  
a make of blender (a machine to mix food or drinks) • *I put all the fruit into the nutribullet® to mix a healthy drink for breakfast.*

- 7.106 full** (adj) /fʊl/  
whole; complete • *I don't eat a full dinner at school. I usually have a sandwich.* > full (adv)
- 7.107 deadline** (n) /'dedlaɪn/  
the latest time or date when sb must do sth  
• *Did you send your form for the competition? The deadline for entries is next Monday.*
- 7.108 prize** (n) /praɪz/  
sth you win for being the best at sth • *Who won the first prize in the science competition?*

## Video 7 An Exciting Invention

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- 7.109 brake** (n) /breɪk/  
a part of a bike, car, etc. that makes it stop or go slowly • *Remember to check the brakes on your bike before you go cycling.* > brake (v)
- 7.110 engineer** (n) /,endʒɪ'nɪə(r)/  
a person who designs and builds roads, bridges, etc. • *The engineers discovered how to make electric cars.* > engineering (n, adj)
- 7.111 million** (num) /'mɪljən/  
the number 1,000,000

- 7.112 attraction** (n) /ə'trækʃn/  
an interesting activity or place to see; sth that makes sth/sb interesting or fun • *The biggest attraction at the amusement park is the roller coaster.* > attract (v), attractive (adj)
- 7.113 make sure** (expr) /meɪk ʃʊə(r)/  
do sth so that you know sth will happen or sth is true • *Make sure the electricity is off before you go away on holiday*
- 7.114 sandbag** (n) /'sændbæg/  
a large bag full of sand usually used to protect a place against bad weather, fire or an attack • *In winter, some houses in the village had sandbags outside their windows and doors to protect them from the heavy rain.*
- 7.115 speed** (n) /spi:d/  
how fast sth moves • *This car can go at a speed of 150 kilometres per hour.* > speed (v), speedy (adj)
- 7.116 high season** (n) /,haɪ 'si:zn/  
the time of year when most people want to travel, go to hotels, etc. especially for holidays • *Hotel rooms cost a lot more during the high season.*  
👉 Opp: low season