



# How We Make Products

## Subject Area

The World of Science & Technology

## Topics & Curriculum Links

materials and products (Science; Technology)

energy and natural resources (Science)

tools and machines (Technology)

industrial processes (Technology; Civics)

parts of a car (Technology)

food (Science, Technology)

buildings and construction (Science; Technology)

art, books, and publishing (Art; Technology)

electronic products (Technology)

countries (Geography)

recycling waste (Science; Technology; Civics)

quantities (Mathematics)

sizes and measurements (Mathematics)

## Vocabulary

products; materials; machines; clothes; parts of a car; food; parts of the body; buildings; rooms; numbers; measurements; countries

## Grammar

present simple; past simple; question forms; imperative; adjectives; prepositions; adverbs

## Teaching Ideas

See also [pages 6–7](#) for general ideas that you can adapt. Or go to [www.oup.com/elt/teacher/readanddiscover](http://www.oup.com/elt/teacher/readanddiscover)



### A Product Presentation

After completing Project 1, students present their product to the rest of the class. They can write or talk about their product like this: *This is a ... It's made of ... It's made by hand / in a factory. People make it like this. They ... Then they ... It's used for ...* Posters can then be displayed together.



### Which Product Is It?

Choose one of the products from the Reader, and without saying its name, read out one sentence about it and ask students to guess which product it is. Read out more sentences, one at a time, until students guess the correct product. You can use a point scoring system, for example, five points after one fact, three points after two facts, etc. Students can then do this in small groups or pairs.

### A Products Display

In small groups, students brainstorm as many products as they can think of and organize them into categories, for example, made by hand/in factories; made of plastic, cotton, wool, plastic, metal; electronic, food, things we wear, transportation. Then they create a display of the products organized into categories, presented as a class mural, or a poster.

## Activities Answers

**Page 24–25** 1 1 neck 2 side 3 back 4 strings 5 front 2 1 hand 2 factories 3 jewelry 4 instruments 5 tools 3 1 People make guitars from wood. 2 They make them by hand. 3 They cut thin pieces of wood. 4 They fix the pieces together with glue. 5 Then they put strings on the guitar. 4 1 factories 2 string 3 tools 4 front 5 1 jewelry 2 chairs 3 clocks 4 musical instruments

**Page 26–27** 1 1 cotton 2 fabric 3 pocket 4 buttons 5 zipper 6 wool 7 clothes 8 jeans 2 1 false 2 true 3 false 4 true 5 true 3 1 cotton 2 machines 3 needles 4 pieces 4 Jess is wearing a pair of jeans. They are (color) and they're made of cotton. She's also wearing a sweater. It's (color) and it's made of wool. 5 free answers

**Page 28–29** 1 1 mold 2 model 3 toys 4 blow 5 waste 6 recycle 2 1 people 2 shape 3 store 4 parts 5 bottle 6 machine 7 product 8 plastic 3 1 People draw a new toy. 2 They make a model of the toy. 3 They make a mold for each part. 4 Machines use hot plastic and molds to make plastic parts. 5 People or machines fix the parts together. 4 free answers

**Page 30–31** 1 1 steel 2 robots 3 seats 4 chassis 5 door 2 1 parts 2 moves things 3 chassis 4 machines 5 can 3 1 chassis 2 shapes 3 robots 4 conveyor 5 parts 6 paint 7 wheels 4 1 A car chassis is made of steel. 2 There are about 35,000 parts. 3 They make 48 million cars. 4 They can recycle the steel.

**Page 32–33** 1 1 dough 2 noodles 3 fingers 4 flour 2 1 chocolate bars 2 noodles 3 chocolate bars 4 chocolate bars 5 noodles 3 1 People take the seed pods from the cacao tree. 2 People leave the seed pods in the sun. 3 They throw away the outside and keep the seeds. 4 Machines grind and heat the seeds. 5 People put sugar and milk into the liquid. 6 They put the liquid in molds. 4 1 rice 2 water 3 holes 4 pull 5 free answers

**Page 34–35** 1 1 Tiles go on walls and floors. 2 Pipes carry water. 3 Concrete can be a liquid. 4 Wires carry electricity. 5 Plaster goes on walls. 2 1 electricity 2 wood 3 wall 4 garden 5 block 6 concrete 3 1 false 2 true 3 true 4 false 5 false 6 true 4 free answers

**Page 36–37** 1 1 pages 2 cover 3 print 4 dots 5 glue 2 1 Authors write the words. 2 Editors check the words. 3 Other people draw pictures or take photos. 4 Designers put the words and pictures into pages. 5 Machines print the pages. 6 Other machines cut the paper into pages. 7 People fix the pages together. 3 1 author, editor, designer 2 computer, printing machine 3 pages, cover 4 1 They use a computer. 2 They print 16 pages. 3 Thousands of very small dots. 4 They check the words. 5 They sewed them together.

**Page 38–39** 1 1 circuit board 2 screen 3 case 4 camera 2 1 electricity 2 electronic 3 circuits 4 plastic 5 cameras 3 1 true 2 false 3 false 4 false 4 1 cell phone 2 circuit 3 screen 4 case 5 microchip 6 electronic 7 program 8 camera 5 free answers

**Page 40–41** 1 1 drawing 2 sensors 3 digital skeleton 4 digital characters 2 1 Computer games are made with computer programs. 2 Digital skeletons are made of lines. 3 People play new computer games to check them. 4 Digital characters are people in computer games. 5 Sensors tell computers how a person moves. 3 1 People draw the characters in the game. 2 They use computers to make digital skeletons. 3 People add faces, clothes, and colors to the skeleton. 4 They check the game. 5 People sell the game on the internet or in stores. 4 1 computer 2 sensor 3 person 4 skeleton 5 program 6 digital

**Page 42–43** 1 1 landfill 2 river 3 electricity 4 recycling center 5 cans 6 sort 2 1 recycle 2 recycling 3 use, recycled 4 products 3 1 When we make products, we use energy. 2 Every day, people throw away millions of products. 3 Most waste goes to landfills. 4 Some waste goes in rivers. 5 We can recycle old products. 4 1 There are 19 kilometers of wool in the Ferrari. 2 There are 35,000 parts in a car. 3 People make 48,000,000 cars every year. 4 Machines print 16 pages on one piece of paper. 5 To make one car, we make 28 metric tons of waste.