



# Plastic

## Subject Area

The World of Science & Technology

## Topics & Curriculum Links

plastic things (Science; Technology)

types of plastic (Science; Technology)

how we make plastic (Science; Technology)

daily life (Civics)

plastic at home (Science; Civics)

plastic waste (Science; Civics)

how plastic can hurt animals (Civics)

recycling plastic (Science; Technology)

making plastic from plants (Science; Technology)

## Vocabulary

household objects; toys; materials; places; food and drink; daily activities; transportation; parts of a house; sizes; colors

## Grammar

present simple; *can/can't*; question forms; imperative; adjectives; prepositions

## Activities Answers

**Pages 20–21** 1 1 bottle 2 pen 3 chopsticks 4 spoon 2 1 material 2 shapes 3 bottles 4 plastic 3 1 plastic 2 strong 3 hard 4 soft 4 1 false 2 true 3 true 4 false 5 false 6 true

**Pages 22–23** 1 1 plastic 2 coil 3 ground 4 liquid 5 pieces 6 factory 2 1 We can make plastic from oil. 2 We get oil from under the ground. 3 We can get different types of liquid from oil. 4 We use plastic pieces to make plastic things. 3 1 factory 2 soft; shapes 3 mold; spoon 4 cold; hard 5 spoons

**Pages 24–25** 1 1 bottle 2 juice 3 light 4 water 2 1 We can buy juice, soda, and water in plastic bottles. 2 We can buy food in plastic wrap. / We can buy sandwiches, salad, and cake in plastic wrap. 3 We use one liter of oil to make four plastic bottles. 3 1 box 2 food 3 transparent 4 plastic 5 salad 6 cake 4 1 false 2 false 3 true 4 false

**Pages 26–27** 1 1 door 2 roof 3 pipe 4 window frame 2 1 There's lots of plastic at home. 2 We use plastic to make many doors. 3 Plastic stops rain getting into our homes. 3 1 fibers 2 colors 3 curtains 4 plastic 5 make 4 1 We use plastic fibers to make many carpets, curtains, and clothes. 2 We can make paint from plastic. 3 We use paint on the walls at home. 4 Students' own answers.

**Pages 28–29** 1 1 kite 2 kayak 3 ball 4 bat 5 toys 6 plastic 7 helmet 8 bicycle 9 goggles 2 1 true 2 false 3 false 4 true 5 false 3 1 Plastic helps us to be safe when we go outside. 2 Plastic goggles protect our eyes. 3 Plastic pads protect our elbows and knees. 4 Plastic helmets are light and very strong. 5 Plastic helmets don't break. 6 Plastic helmets protect our head. 4 1 pads 2 elbows 3 head 4 knees 5 helmet 6 goggles

**Pages 30–31** 1 1 throw away; plastic 2 waste 3 burn 4 Pollution 2 1 ocean 2 animals 3 waste 4 burn 5 pollution 6 bad 3 1 Some plastic waste goes in the ocean. 2 Many animals live in the ocean. 3 The plastic waste is very bad for the animals. 4 1 Some plastic things break into small pieces. 2 Animals eat plastic pieces and they get sick. 3 Some animals eat plastic bags and they get sick. 4 Some plastic waste hurts animals.

**Pages 32–33** 1 1 recycle 2 factory 3 fibers 4 pieces 2 1 We take plastic bottles to a recycling center. 2 We take the bottles to a factory. 3 We break the bottles into small plastic pieces. 4 We use the plastic pieces to make fibers. 5 We use the fibers to make T-shirts. 3 1 kayak 2 chair 3 T-shirt 4 Playground 4 1 False 2 True 3 False 4 False

**Pages 34–35** 1 1 oil 2 plants 3 plastic cup 4 plastic bag 2 1 We use lots of oil to make plastic. 2 We can't make more oil. 3 We use plastic every day. 4 There's too much plastic waste. 3 1 plastic 2 bottles 3 Recycle 4 plants 4 1 center 2 new 3 cups 4 today 5 plastic 6 bottles 7 make The secret word is 'recycle'.

## Teaching Ideas

See also pages 8–9 for general ideas that you can adapt. Or go to [www.oup.com/elt/teacher/readanddiscover](http://www.oup.com/elt/teacher/readanddiscover)

### READ & TALK Plastic Things

After completing Project 1, students collect the results from the whole class. They can do this by listening to each student giving their information in turn, or by collecting the information in a big version of the chart on page 36 of the Reader. Students then make a bar graph showing how many plastic things they found in their bedrooms, kitchens, and classrooms.

### READ & TALK Different Types of Plastic

Students work in small groups to make a chart that lists as many plastic things as they can think of. On the chart they label four columns: *Hard*, *Soft*, *Light*, *Transparent*, and they tick whether the plastic is hard, soft, light, or transparent. Students then collect the results from the whole class, and make one big chart. They can also find pictures of the plastic things and label them. The chart and the pictures can then be displayed in class.

### READ & TALK A Plastic Quiz

Ask the class quiz questions, using facts from the Reader. Ask true/false questions, or questions starting with *What*, *Where*, *When*, etc. Students can work in pairs or small groups, and they can look for the answers in the Reader. Then in pairs or small groups, students can ask their own quiz questions.

### Recycle Your Plastic!

Students make a poster about recycling plastic things and not throwing plastic away. They can use the title: *Recycle Your Plastic!* They write reasons, for example: *There's too much plastic waste. Some people burn plastic waste and this makes pollution. Some plastic waste hurts animals.* Then they illustrate the reasons. The posters can be displayed around the school.

### Using Plastic to Make New Things

Ask students to bring in clean plastic waste from home, for example, plastic cups, bottles, cutlery, old CDs. Once students have collected enough plastic waste, they re-use the plastic things to make something new, for example, a piece of art like a collage or sculpture, or something useful, like a pen holder or desk organizer. Alternatively, students can do this at home. The new creations can then be displayed in class and students can vote for the best one.