

Science
Cleaning up after ourselves
Book: Caring for our environment
Pages 40-45

Students: Fill in the answers and return for assessment

Everything here is based on our Curriculum Visions book Caring for our environment.

In this segment, we are going to learn about some of the ways that we clean up pollution.

You will need to go to pages 40-41 of the book.

Part 1

What kinds of materials is water polluted with? What happens to the water when there is too much sewage in it?
What are the 7 stages of cleaning sewage?

Answer ...

Sewage (human waste), chemicals (oil and detergents), soil

The nutrients cause microscopic water plants (algae) to grow and use up the oxygen so good microbes cannot clean the water.

1) Remove large pieces; 2) Let heavy material settle; 3) Remove sewage water from the top while solids settle; 4) microbes break down the sewage and sludge; 5) sludge is removed to use as fertiliser; 6) air is added to help microbes; 7) final filtering

Now turn to pages 42-43 of the book.

Part 2

What are some of the ways that oil gets into the seas? What kind of damage do oil spills cause?

Answer ...

Pipes can burst; tankers can be wrecked; ships clean out their holds.

Some oil sinks and kills animals on the seabed; some oil floats and kills birds and coastal animals

Now turn to pages 44-45 of the book.

Part 3

What are the 6 most common air pollutants?

Where does air pollution come from?

What are some of the dangers of air pollution?

In a group, think about some ways of preventing air pollution.

Answer ...

Sulphur dioxide, lead, ozone, nitrogen dioxide, carbon monoxide, dirt and dust

Factories, power stations, vehicles (cars, trains, buses, planes, trucks, etc.)

Health problems, environmental damage, acid rain, destroy the ozone

Students' own answers. Answers could include ideas such as drive less, more electric vehicles, buy fewer things, filters on smokestacks (chimneys), etc.

That is the end of this worksheet, and you can now turn to another one. Also, find out if your teacher has left you any other worksheets or special instructions on your school website.

If you are interested in this topic, continue to browse the book and watch our amazing videos. They start right on the book cover.

Or you may want to see related books. If so just go to the top of the screen, select science, and from the page that opens choose Caring for our environment.