

Key stage 1

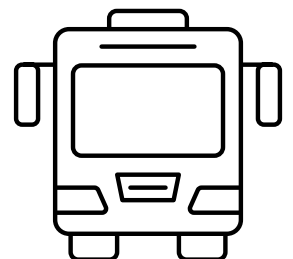
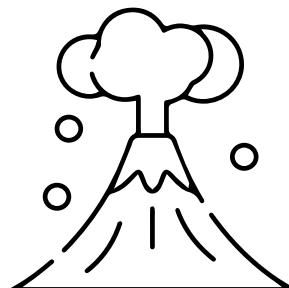
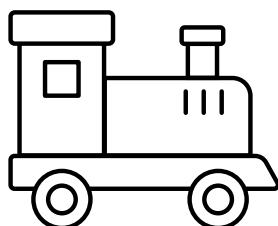
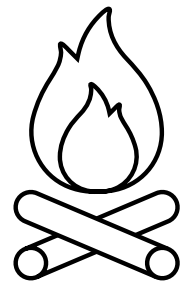
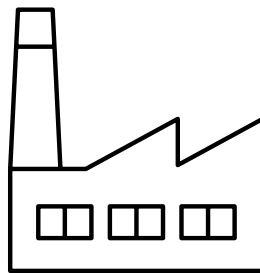
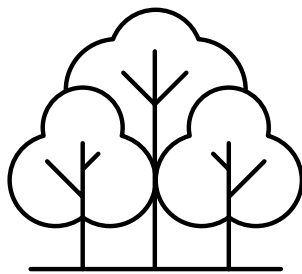
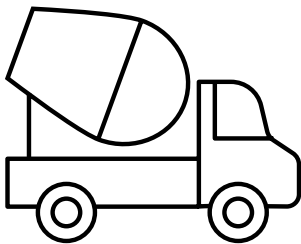
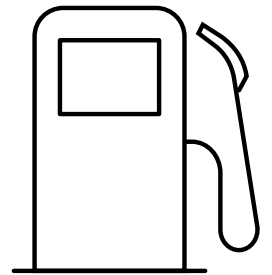
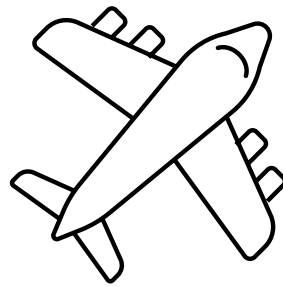
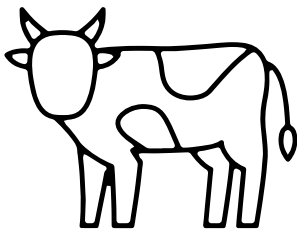
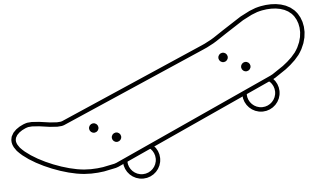
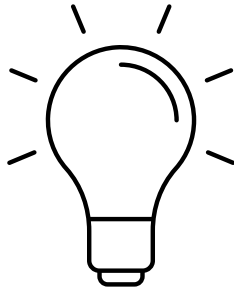
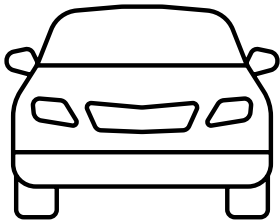
Clean Air Schools

Student workbook

Lesson 1

How is air pollution caused?

Colour in the pictures (**RED** – bad for the air) (**GREEN** – good for the air)

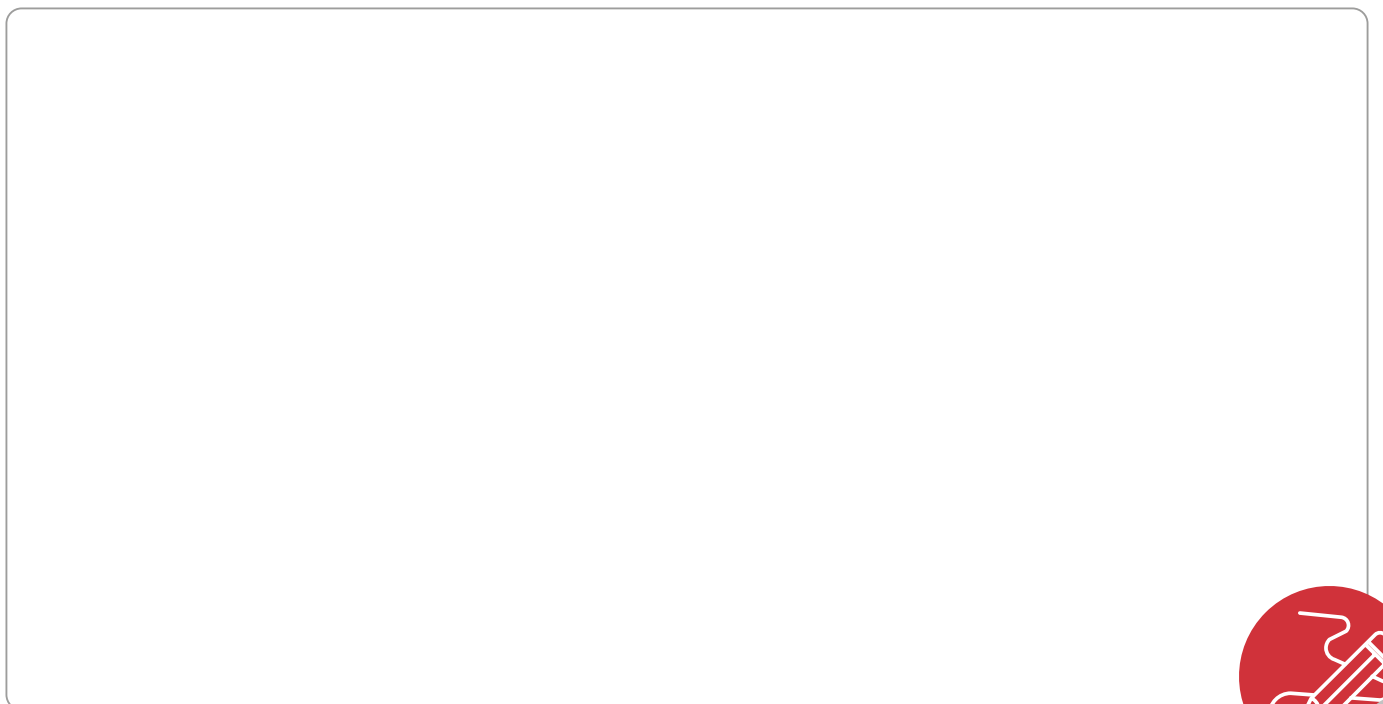


Lesson 2

What types of pollution are there at school?

How can you make the air better?

Draw a picture of your school with very clean air:



Lichen

What is lichen?

Lichens are plants and they will grow on rocks, trees and roofs, where other plants cannot. Different lichens love or hate air pollution and they show us how good or bad the air is. Lichen can be used to look at how good the air is in cities like Southampton.

Types of lichen:

Lichen can show us how polluted the air around us is. There are lots of different types of lichen – they come in all sorts of shapes, sizes, and colours – and different types of lichen like different types of air!

- Pollution hating lichens only live in clean air
- Pollution loving lichens can live in dirty air
- Some lichens are not affected by air quality and can live anywhere

	How much did you see?	How many and which trees had this lichen?
 Green lichens need really clean air		
 Grey lichens can live with a small amount of air pollution		

	How much did you see?	How many and which trees had this lichen?
		

Describe or draw where in the school you looked for lichen



Which type of lichen did you see the most?

☐

Green

☐

Grey

☐

Orange

Is the air good or bad near the school?

Where the trees with more pollution hating lichen (orange) closer or further away from the road?

☐

Closer to the road

☐

Far away from the road

What do you think is causing the air to be polluted near the school?

Word search

Circle the words you can find from the list below.

p d n k k r a l s y t l q l t p w b d n c j f j p
z a u o e l h l r z k k x m b p f y c i w v u a p
f g r s i d l i n g l r g v b s d e f y g w m h a
c d e t t s v a d g e w r q t y h f c n c m e l p
n h a r i t u i c v o i u h y k a b v f s l s j c
f g e r v c o f h l m u i b g r l u n g s s i r t
f l e r v x u b f s r e w j t h k l p o u b s n n
r s w e i x y l m i p y z b d r e n b e w n k j g
b g h d y u i d a f d s e v g h y a t x o b n f j
f r e e v s g j t t i o p x v k s l l i i r u a o
b r e f t h d s a e e y u b n j i m s t d n t l p
g h o t y g v s r v b s m n u t y s o l h i u i q
w a j k i n g e g h d e t y b c i l m k n a b q i
t r f d i n h g p l f v z e w m q m v e e v e y j
d e a w c p d c f s h g b b e e y k l o p g t r e
e c x p s h j k r t y u b f s d a s c c e r v s t
l k h o p g h y a q w m n x z g l i z n b u i o j
l a m f r e w d g v h j u y n v x k n o i l f a q
l t p v q g a s f t e w v h g o j e h r u n y t b
a v g y d o p s d e f t m n t l g o i y t x z s a
b g h d y u i d a f d s e v g o y a t x o v n f j
p d n k k r a l s y t l q l r p w b d n c j f j p
n h a r i t u i c v o i u t y k a b v f s l s j c
r s w e i x y l m i p y i b d r e n b e w n k j g
d w a l k i n g g t h n e w v p s y b n g d f y i

Words to find:

Atmosphere
Cycling
Diffusion
Dioxide
Dust
Emissions

Fumes
Gas
Health
Idling
Lungs

Nitrogen
Particulates
Pollution
Run
School

Smoke
Toxic
Traffic
Tube
Walking

Produced by Amber Titchener
Sustainable Schools Engagement Officer

<https://soton.cc/schoolscleanair>

