



TalkforWriting

Talk for Writing Home-school booklet

Rainbows, rainbows everywhere!

by Emma Caulfield

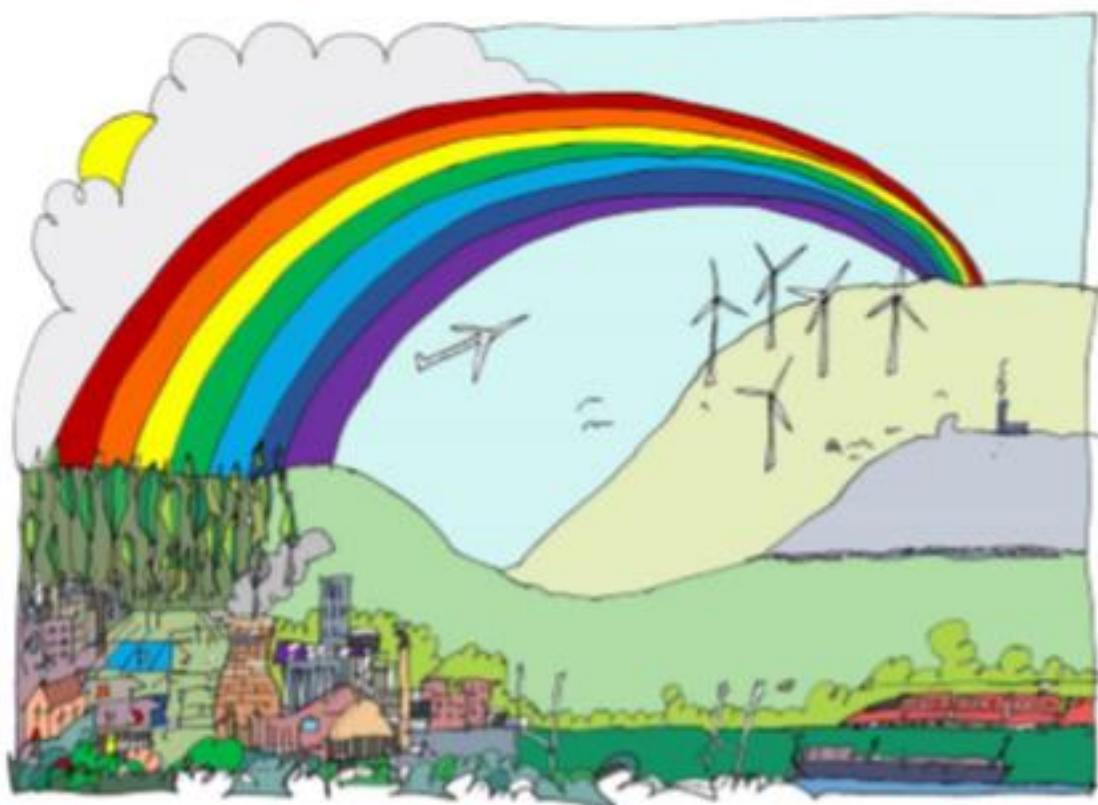


© Copyright of Emma Caulfield and Talk for Writing 2020.
Permissions: Sharing the web link / URL, to where this booklet sits on the Talk for Writing website with colleagues and parents is encouraged, but no part of this publication should be re-uploaded elsewhere online, reproduced or altered without permission.
www.talkforwriting.com



Rainbows, rainbows everywhere!

By Emma Caulfield



A riddle:

What am I?

A bridge, a bow, an arch.

Shining bright in the sky.

From sunshine and rain am I.

Look up or you'll miss me.


Did you know that the rainbow is a sign of hope? In this booklet we will be looking at all things rainbow! Where they come from and why we are seeing more today, in spring 2020, than ever before.



Have you ever seen a rainbow? Do you know where rainbows come from?



★ Talk to someone at home about rainbows. You could talk about:

- ★ The colours that you can see (can you always see all of the colours like in the picture above?)
- ★ The shape of the rainbow (is it always an arc  shape?)
- ★ What is the weather like when you see a rainbow?
And talk about this: (guess if you don't know)
- ★ How are rainbows formed?

Write down your ideas here:

The shape of a rainbow is ...

The colours I can see are ...

*When there is a rainbow
the weather is always ...*

Rainbows appear when ...

- ★ Read this piece of explanation with someone at home to find out about rainbows:

You can listen to an audio version of the text below here:
<https://soundcloud.com/talkforwriting/rainbows/s-Mt28P90JIXO>

Rainbows

A rainbow is an **arc** of colour in the sky that can be seen when the sun comes out during or after a rainstorm.

How a rainbow is formed

A rainbow is formed when a person sees the sun or a **light source** shining through rain drops.



Photo by Italo Melo from Pexels

This type of rainbow is formed when sunlight strikes raindrops, at a forty two degree angle, in front of the people looking at it.



When the light strikes the drops, it changes and splits into colours, called a **spectrum**. These colours are bounced back to us so that we see a rainbow.



What we see



The colours of a rainbow are red, orange, yellow, green, blue and purple.

Where are rainbows?

The rainbow is an **optical illusion** which means that it tricks your eyes so that what you think you see is different from what is really there. Rainbows are not in a fixed spot in the sky as the appearance of a rainbow depends on where the person seeing it is and where the light is.

Rainbows are actually full circles but viewers on the ground can only see them above the **horizon**.



Fascinating fact

A moonbow, also called a lunar rainbow, is a rainbow that is produced by light from the moon!

Glossary (what the words mean)

arc *A part of a line that forms the outside of a circle.*

light source *The place or thing which you get light from.*

horizon *The line in the far distance where the sky seems to meet the land or the sea.*

spectrum *The range of different colours that you get when light passes through a glass prism or through a drop of water.*

★ Now that you have read the information explaining about rainbows look again at the sticky notes you wrote on before. What have you learnt about rainbows? Fill in these sticky notes:

The shape of a rainbow is ...

The colours I can see are ...

*When there is a rainbow
the weather is always ...*

Rainbows appear when ...