



Name: \_\_\_\_\_

**Folgende Rollen werden vergeben (20 SuS)**

- 1 x Sonne
- 4 x Sonnenstrahl
- 4 x Erdoberfläche
- 3 x Wasserstoff-Molekül (Bestandteil der Atmosphäre)
- 1 x CO<sub>2</sub> (Bestandteil der Atmosphäre)
- 1 x Lachgas/Ozon/Methan (Bestandteil der Atmosphäre)
- 1 x CO<sub>2</sub>-Molekül (aus Autoabgasen)
- 1 x CO<sub>2</sub>-Molekül (aus Industrie-Schornsteinen)
- 1 x CO<sub>2</sub>-Molekül (bei Verbrennung von Kohle entstanden)
- 1 x FCKW-Molekül (aus einer Spraydose entwichen)
- 1 x Methan-Molekül (bei der Verdauung von Wiederkäuern entstanden)
- 1 x Lachgas-Molekül (aus landwirtschaftlich intensiv genutzten Böden entwichen)

Die freie Fläche in der Klassenmitte ist die „Bühne“, die SuS stehen zu Beginn alle links und rechts am Rand.

Dann werden von der Lehrperson die Sonne am einen Ende der Klasse und die Erdoberfläche auf der anderen Seite positioniert. Die Sonnenstrahlen werden vor der Sonne platziert.

Simulation des Natürlichen Treibhauseffekts:

In der Atmosphäre (zwischen Sonne und Erdoberfläche) werden 3 Wasserstoff-Moleküle sowie das CO<sub>2</sub>-Molekül (Bestandteil der Erdoberfläche) und das Lachgas/Ozon/Methan-Molekül platziert. Die kurzwelligen Sonnenstrahlen (SuS mit eng am Körper angelegten Armen) werden von der Sonne zur Erde geschickt. Sie gelangen relativ leicht durch die Treibhausgase in der Atmosphäre.

Die Sonnenstrahlen treffen auf der Erdoberfläche auf, es findet ein physikalischer Prozess statt (SuS drehen sich um) und sie verwandeln sich dabei in langwellige Wärmestrahlen (SuS strecken die Arme zur Seite). Diese werden zurück ins Weltall reflektiert. Dabei bleibt ein Wärmestrahler an den Treibhausgasen hängen, drei gelangen zurück ins Weltall.

*Frage an Beobachter/innen: Welchen Prozess konntet ihr hier beobachten? Welche Auswirkungen hat dieser? Was würde ohne Treibhausgase passieren? Wie würde dann das Leben auf der Erde aussehen?*

Simulation des Anthropogenen Treibhauseffekts (durch Menschen verursacht):

Die Sonnenstrahlen stehen wieder alle bei der Sonne, das weitere Setting ist wie oben zu Beginn.



Name: \_\_\_\_\_

Simulation zum Treibhauseffekt

Dann werden die restlichen Moleküle in der Atmosphäre platziert. Die SuS sollen, während sie sich „in die Atmosphäre begeben“, laut vorsagen, woher das Molekül stammt, welches sie repräsentieren (steht auf den Rollenkärtchen drauf).

Die kurzwelligigen Sonnenstrahlen werden wieder von der Sonne zur Erde geschickt und bahnen sich ihren Weg durch die Moleküle. Dann werden sie von der Erde wieder in langwelligeren Strahlen umgewandelt und reflektiert. Diesmal kann keiner der Wärmestrahlen durch die Treibhausgas-Moleküle wieder ins Weltall gelangen.

*Frage an Beobachter/innen : Was ist diesmal passiert? Welche Auswirkungen hat das? Welchen Unterschied zu vorher könnt ihr erkennen?*

Was die SuS wann zu tun haben, wird von der Lehrperson vorgesagt. Diese geht auch auf die Antworten der Beobachter/innen ein und ergänzt wenn nötig mit eigenem Fachwissen (bezogen von: <https://klima-kollekte.de/de/info/natuerlicher-und-anthropogener-treibhauseffekt>)



Name: \_\_\_\_\_

**1<sup>st</sup> lesson****GW**

In german!

1. Show video about FFF <https://www.youtube.com/watch?v=EhdfxYILjt4>
2. Show video with the kids <https://www.youtube.com/watch?v=qBR5rWQQIYA>

**2<sup>nd</sup> lesson****E**Brainstorming:

- What different types of weather do you know?
  - Do you know types of extreme weather?
1. *Worksheet "Weather 2"*

**3<sup>rd</sup> lesson****GW***Short Story: Planet Earth*Video: <https://learnenglishkids.britishcouncil.org/short-stories/planet-earth>

1. Watch the video
2. Watch the video again and read the text while watching
3. *Vocab-Sheet "Planet Earth"*
4. Explain further unknown words
5. *Worksheet "Planet Earth"*

**Homework:** Finish "Worksheet "Planet Earth" + *Worksheet "Helping the environment"***until next lesson!****Announcement:** "Show what you know" on Monday**4<sup>th</sup> lesson****E**

Song: The ballad of Lisa the lemur

Video: <https://learnenglishkids.britishcouncil.org/songs/the-ballad-lisa-the-lemur>

1. Watch the video and listen to the song
2. *Worksheet „The ballad of Lisa the lemur"*

Song: It's up to me and you

Video: <https://learnenglishkids.britishcouncil.org/songs/its-up-me-and-you>

1. Watch the video and listen to the song
2. Divide class into two groups
3. Watch again: Rap Battle (with *Lyrics*)

**Homework:** *Worksheet "It's up to me and you"***5<sup>th</sup> + 6<sup>th</sup> lesson****GW**

Write an e-mail to Greta Thunberg and write about

- why it is important to help the environment
- what you (can) do to save the environment
- what you think about "Fridays for Future"

*Worksheet "Write an email"*Send To: [sweden@fridaysforfuture.org](mailto:sweden@fridaysforfuture.org)

Subject: "I'm too young to demonstrate but..."



## Weather 2

### 1. Match them up!

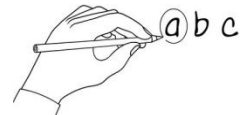
Match the types of extreme weather with their description.



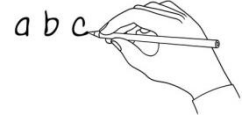
freezing	→	a very strong snow storm		
boiling		it rains balls of ice		
hail		very cold temperatures		
blizzard		a strong tropical storm		
tornado		very hot temperatures		
flood		a violently rotating column of air		
hurricane		a long, high sea wave, usually caused by an earthquake		
tsunami		it rains so much that water comes into streets and houses		

### 2. Choose the answer!

Read the sentence. Circle the correct answer.



- What is the coldest temperature ever recorded? **-51.7°C / -89.2°C / -125°C**
- Where was it recorded? **Antarctica / Greenland / Siberia**
- What is the hottest temperature ever recorded? **56.7°C / 65.7°C / 75.7°C**
- Where was it recorded? **Basra, Iraq / El Azizia, Libya / Death Valley, USA**
- What are the fastest tornado winds ever recorded? **184 km/h / 334 km/h / 484 km/h**
- How high is the highest tsunami wave ever recorded? **324m / 524m / 724m**
- The strongest ever hurricane hit in 2005. What was its name? **Wilma / Gilbert / Rita**
- In 2010 the biggest hailstone in the world fell. How wide was it? **10cm / 20cm / 50cm**



**3. Answer the questions!**

Write your answers to the questions.

a. Do you ever have freezing or boiling temperatures in your country?

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b. Have you ever seen hail?

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c. Have you ever been in a blizzard?

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d. Have you ever been in a flood?

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e. Have you ever seen a tornado?

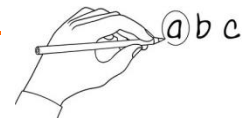
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f. Does your country ever get hurricanes or tsunamis?

---

**4. Find the words!**

Find the eight extreme weather words from exercise 1 in the wordsearch below.



F	K	E	Y	D	N	Q	H	R	B	M	T
R	L	B	V	Q	X	J	I	A	L	P	J
E	T	O	T	S	U	N	A	M	I	F	V
E	Y	I	O	S	A	P	G	O	Z	L	H
Z	H	L	I	D	L	W	C	X	Z	S	F
I	N	I	H	U	R	R	I	C	A	N	E
N	R	N	B	L	G	Z	U	Z	R	U	K
G	W	G	O	T	O	R	N	A	D	O	M



## Planet Earth

### Short story

Welcome to Planet Earth Museum, a museum where you can learn some interesting facts about the world we live in.

'There are many amazing places on Earth. Who knows, maybe you'll see them all one day! Where shall we go first, children?'

'Forests!'



Forests are home to over half of the world's animals and plants. Trees clean the air and produce oxygen for us to breathe.

We destroy more than 36 football fields of forests every minute and throw away thousands of trees in paper and card every day.

The oceans are home to millions of marine animals. They absorb the sun's heat, transfer it to the atmosphere and move it around the world.

A lot of the rubbish we produce on land pollutes the oceans. Turtles mistake plastic bags for jellyfish and die when they eat them.

At opposite ends of the world, the Arctic and Antarctic are freezing cold lands. It is so cold that the sea is covered in ice.

The fuel we use for energy makes the climate warmer. As it gets warmer, the ice melts and the sea rises. The land disappears.

Rivers collect rain water and carry it to the oceans. Along the way, plants absorb and clean the water so it is safe for us to drink.

Farms and factories pollute the rivers with pesticides and chemicals and every day we each flush about 50 litres of water down the toilet.

This is a green world, where people respect nature and live a long and healthy life. Wouldn't you like to live here?

Listen to this story <https://learnenglishkids.britishcouncil.org/en/short-stories/planet-earth>

Contributors Story by Carolyne Ardron



Name: \_\_\_\_\_

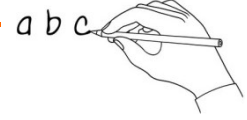
## Matching Exercise

Where shall we go first?	
over half of the ...	
clean the air	
the oxygen we breathe	
destroy the forests	
home to millions of marine animals	
absorb the heat	
transfer to the atmosphere	
the rubbish pollutes the oceans	
mistake plastic bags for jellyfish	
the sea is covered in ice	
as it gets warmer	
ice melts and the sea rises	
the land disappears	
collect rain water	
flush down the toilet	
this is a green world	

<b>A</b>	die Luft reinigen
<b>B</b>	wenn es wärmer wird
<b>C</b>	in die Atmosphäre abgeben
<b>D</b>	Plastiktüten mit Quallen verwechseln
<b>E</b>	mehr als die Hälfte der...
<b>F</b>	das Land verschwindet
<b>G</b>	die Wälder zerstören
<b>H</b>	Regenwasser sammeln
<b>I</b>	Wohin sollen wir zuerst gehen?
<b>J</b>	Eis schmilzt und das Meer steigt an
<b>K</b>	Zuhause für Millionen von Meerestieren
<b>L</b>	das Klo hinunterspülen
<b>M</b>	der Müll verschmutzt die Ozeane
<b>N</b>	der Sauerstoff, den wir atmen
<b>O</b>	das Meer ist von Eis bedeckt
<b>P</b>	das ist eine umweltfreundliche Welt
<b>Q</b>	die Wärme aufnehmen



# Planet Earth

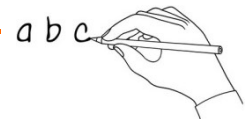


## 1. What's the word?

Write the word under the pictures.

Earth	forest	animals	plants	tree	ocean
sun	paper	rubbish	the Arctic	farm	factory

	Earth				

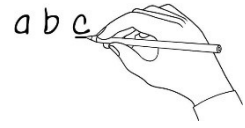


## 2. Fill it in!

Watch the story. Write the missing words in the sentences.

- Forests are home to over half of the world's animals and plants.
- Plants clean the air and produce oxygen for us to breathe.
- The oceans are home to millions of marine animals.
- They absorb the sun's heat and transfer it to the atmosphere.
- At opposite ends of the world, the Arctic and Antarctic are freezing cold lands.
- It is so cold that the sea is covered in ice.
- Rivers collect fresh water and carry it to the oceans.
- Along the way, plants absorb and clean the water so it is safe for us to drink.





3. Make it right!

Watch the story. Find the mistake, underline it and write the correct word.

- a. We destroy more than 36 football fields of oceans every minute. forests
- b. We throw away thousands of trees in plastic and card every day. \_\_\_\_\_
- c. A lot of the food we produce on land pollutes the oceans. \_\_\_\_\_
- d. Turtles mistake plastic bags for jellyfish and die when they see them. \_\_\_\_\_
- e. The fuel we use for energy makes the climate colder. \_\_\_\_\_
- f. As it gets warmer, the ice melts and the sea rises. The sea disappears. \_\_\_\_\_
- g. Farms and schools pollute the rivers with pesticides and chemicals. \_\_\_\_\_
- h. Every day we each flush about 50 litres of paper down the toilet. \_\_\_\_\_

4. Write and draw!

Imagine living in the green world at the end of the story. How do people respect nature? Draw a picture and write about it!



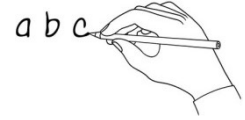
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# Helping the environment



## 1. What's the word?

Write the word under the pictures.

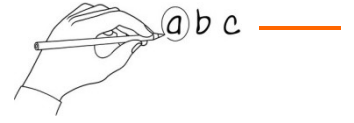
<p><del>pollution</del></p> <p>melting ice caps</p>	<p>chemical waste</p> <p>rubbish in seas</p>	<p>global warming</p> <p>polluted rivers</p>	<p>deforestation</p> <p>littering</p>
	<p>pollution</p>		

## 2. Match them up!



Match the environmental problem to the sentence.

pollution	The planet's temperature is rising because of _____.
chemical waste	Most _____ comes from the land.
global warming	Cars and lorries contribute to air _____.
deforestation	Sea levels are rising because of _____.
melting ice caps	Dropping rubbish on the ground is called _____.
rubbish in seas	Rainforests are being destroyed by _____.
polluted rivers	Lots of _____ comes from factories.
littering	Animals and plants which live in _____ can die.



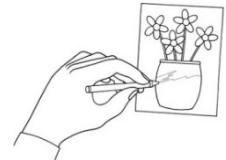
3. Choose the answer!

Read the sentence. Circle the correct answer. Write two more sentences with your own ideas for ways to help the environment.

- a. Have a \_\_\_\_\_, not a bath. **party / shower / break**
- b. \_\_\_\_\_ to school instead of taking the car. **Walk / Fly / Swim**
- c. Turn \_\_\_\_\_ the lights when you leave the room. **up / on / off**
- d. \_\_\_\_\_ plastic, metal, glass and paper. **Recycle / Throw away / Burn**
- e. Write on both sides of a piece of \_\_\_\_\_. **cheese / wood / paper**
- f. Turn the \_\_\_\_\_ off when you brush your teeth. **lights / tap / music**
- g. \_\_\_\_\_
- h. \_\_\_\_\_

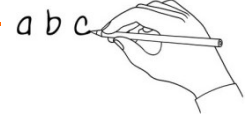
4. Draw a picture!

Choose two ideas from exercise 3. Draw a picture of you doing them!









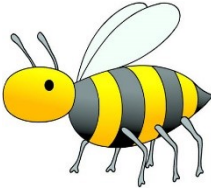
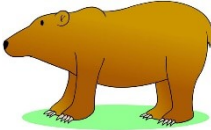

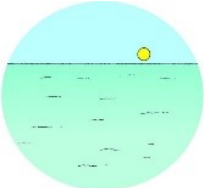




# The ballad of Lisa the lemur

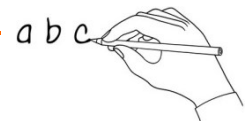


## 1. What's the word?

Write the word under the pictures.

lemur	tree	mountain	fish	sea	zoo
park	bee	hive	goat	bear	cave

					
	lemur				
					



## 2. Fill it in!

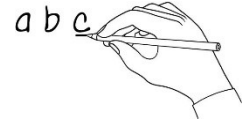
Listen to the song and write the missing words in the sentences.

- Lisa the lemur lives in a tree.
- People live in a \_\_\_\_\_.
- Fish live in the \_\_\_\_\_.
- Bees live in a \_\_\_\_\_.
- Goats live on a \_\_\_\_\_.
- Bears live in a \_\_\_\_\_.



3. Make it right!

Listen to the song. Find the mistake, underline it and write the correct word.



- a. Lisa and her family lived in the city.
- b. A girl chopped down the family tree.
- c. So they moved to another flat.
- d. A man chopped their old tree down.
- e. So Lisa and her friends moved to the town.
- f. The park closes after light.
- g. There's no more room at the school.
- h. Now Lisa and her family have nowhere to eat.

rainforest

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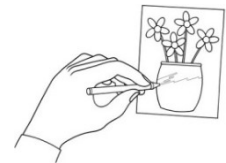
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4. Write and draw!

Many trees, like Lisa's, are cut down to make paper. Can you think of any ways to save paper? Draw a picture and write about it!




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## It's up to me and you!

Can you understand  
What we have to do?  
There's only one world  
It's up to me and you!

Brush your teeth but turn off the tap  
Take a shower don't have a bath  
Walk or ride your bike to school  
Recycle paper that's the rule.

Can you understand  
What we have to do?  
There's not much time  
It's up to me and you!

Unplug the TV, switch off the lights  
Go out with friends don't surf all night  
Give old clothes to charity  
Join a green group, plant a tree.

Can you understand  
What we have to do?  
There's not much time  
It's up to me and you!

Brush your teeth but turn off the tap  
Take a shower don't have a bath  
Walk or ride your bike to school  
Recycle paper that's the rule.

Can you understand?

## Song



Listen to this song <https://learnenglishkids.britishcouncil.org/en/songs/its-up-me-and-you>

Contributors      Lyrics by Carolyne Ardron

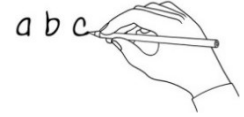
[www.britishcouncil.org/learnenglishkids](http://www.britishcouncil.org/learnenglishkids)

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It's up to me and you!



1. What's the word?

Write the word under the pictures.

world	tap	shower	bath	walk	ride a bike
recycle	TV	switch	surf	plug	light

	world				

2. Match them up!



Listen to the song and make sentences.

Brush your teeth but

Take a shower,

Walk or ride your bike

Recycle paper,

Unplug the TV,

Go out with friends,

Give old clothes

Join a green group,

don't have a bath.

that's the rule.

turn off the tap.

switch off the lights.

plant a tree.

to charity.

to school.

don't surf all night.





