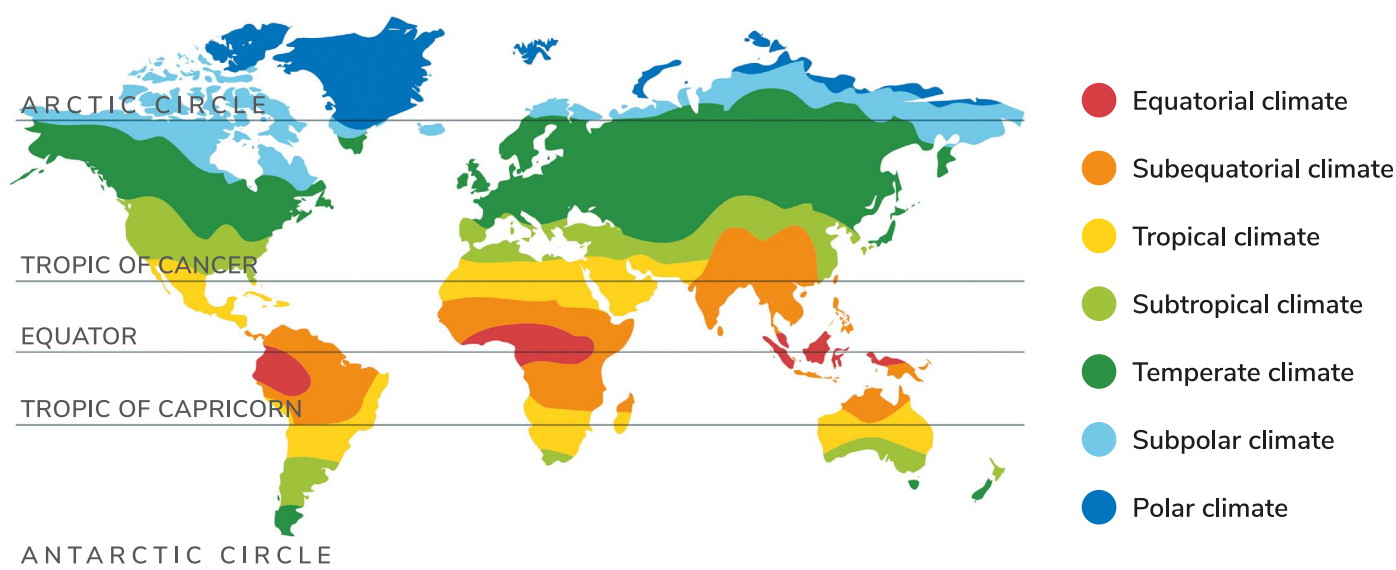


THE WEATHER AND CLIMATE

The Earth is a very interesting place. There are many different climates and different kinds of weather. Climate is the usual kind of weather a place has. Weather can change but climates stay the same most of the time. There are different types of climates because of the sun. Places closer to the sun are hotter, and places farther from the sun are colder. Mountains have their own climate too!

The colours show the climates in different parts of the world.



Areas with the polar climate are cold all year long.

Areas with the temperate climate have four seasons. They are hot in summer and cold in winter.

Areas with the tropical climate are hot all year. They have two seasons – the dry season and the wet season.

Areas with the equatorial climate are hot and wet. It rains there almost every day.

Do you know that when we have summer in Europe, there is winter in Australia, South America and southern Africa? Australians celebrate Christmas in the middle of summer!

What kind of climate do we have in Poland?

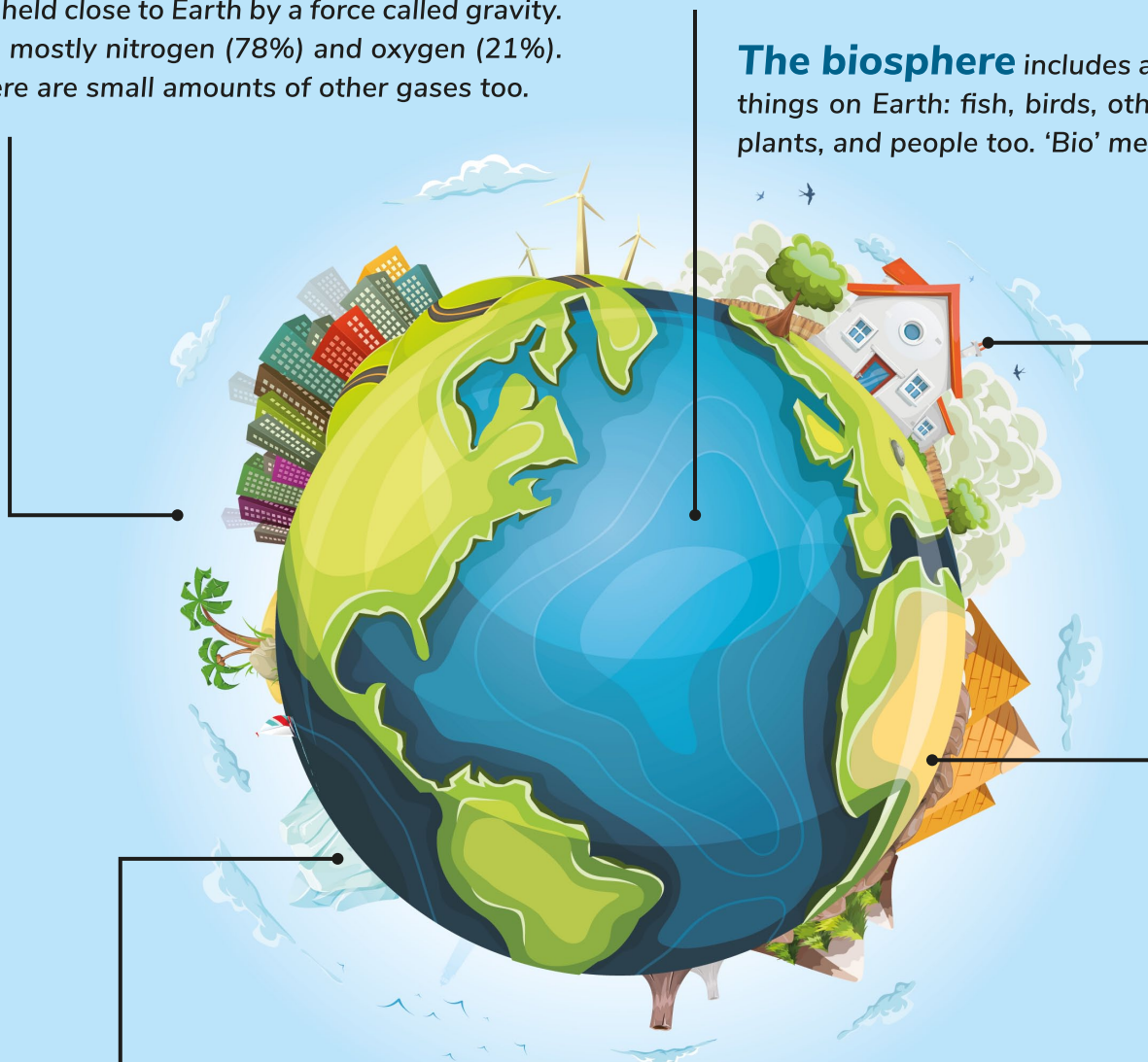


The Earth's climate system has five components. They work together and influence the weather.

The atmosphere is the air that plants and animals breathe. The name comes from the word 'Atmos' that means 'air'. The atmosphere consists of different gases that are held close to Earth by a force called gravity. It is mostly nitrogen (78%) and oxygen (21%). There are small amounts of other gases too.

The hydrosphere includes the oceans, rivers, lakes, groundwater, and water frozen in glaciers. 97% of water on Earth is found in the oceans. 'Hydro' means 'water.'

The biosphere includes all the living things on Earth: fish, birds, other animals, plants, and people too. 'Bio' means 'life.'



The cryosphere includes all the frozen places of our planet: all the ice, snow and glaciers. The name comes from 'Kryos' - the Greek word for 'cold'.

The geosphere is all the lands, rocks and minerals. 'Geo' means 'earth.' Volcanoes, mountains, and deserts are all part of the geosphere.



Spring, summer, autumn and winter are the four seasons. The weather changes throughout the year because the Earth travels around the sun. The Earth is tilted a little to one side, so as it moves around the sun during the year, the hemisphere that is closer to the sun is warmer. It takes 365 days for the Earth to make a full circle around the sun.

WILD WEATHER

There are many types of weather: windy, sunny, rainy, snowy or cloudy. The weather is not always perfect. Sometimes it is wild and dangerous.

Match the words and their definitions.



DROUGHTS



SANDSTORMS



HURRICANES

Click and watch!



TSUNAMIS

Click and watch!



FLOODS

Click and watch!



FOREST FIRES

Uncontrolled fires burning on land covered by trees, bush and grass.

Occur after a long period of time without rain.

Occur after heavy rains, when water covers land that is usually dry.

A large and destructive ocean wave, usually caused by an underwater earthquake or a volcanic eruption.

Large rotating storms that move at a high speed. They usually form over warm waters in tropical areas.

Strong winds that carry clouds of sand and dust through the air. They usually form in desert areas.


























Can you find the hidden words?

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

HURRICANE BIOSPHERE DRY VOLCANO EQUATOR DROUGHT TSUNAMI TROPICAL GEOSPHERE
FLOOD CLIMATE SANDSTORM CRYOSPHERE POLAR GLACIER AUTUMN SNOWFLAKE SEASON
HEMISPHERE TEMPERATE WET AIR RIVER EARTHQUAKE DESERT RAINFOREST ICE OCEAN MOUNTAIN

INTERESTING FACTS ABOUT THE WEATHER

Look at the secret code and read the text below.

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

- _____ can swallow up entire cities.
        
- The _____ ever recorded was -89.2°C in _____, _____
                       
_____. Brrr!
         
- _____ can make train tracks bend.
        
- About 2,000 _____ rain down on Earth every minute.
            
- _____ often follows a _____.
                        
- _____ wriggle up from the underground when a _____ is coming.
         
- In _____ snow can fall so hard that you cannot see your hand in front of your face.
         
- Some _____ can be faster than _____ racing cars.
                 
- _____ means 'a great harbor wave' in _____.
              
- _____ are giant tropical storms that bring heavy rainfall and super strong winds.
         
- The _____, _____, _____ and _____ changes are studied to make _____ predictions.
                   
- Each minute one _____ tons of _____ falls on the Earth.
         
- The _____ temperature ever recorded on Earth was 56.7 degrees Centigrade in _____, _____, _____
           