



Teaching notes

Pluvia Loriente CEIP JOSEP TARRADELLAS

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-	UNIT 1: WEAT	HER PATTERNS	
Lessons	Title	Student's worksheets	Supplementary material
LESSON 1	Weather & climate	WS-1A & WS-1B	SM- Weather pictures SM- Weather cards SM- PPT
LESSON 2	Climates & places	W5-2 W5-3	SM- Weather song SM- Power Point SM- Travel cards
LESSON 3	Climate zones around the Earth (Part 1)	WS-4 WS-5	SM-PPT
LESSON 4	Climate zones around the Earth (Part 2)	WS-7 WS-8	SM-PPT SM-Climate map SM-Assessment
	UNIT 2: CLIMATE & LIF	E AROUND THE WOR	RLD
LESSON 1	Weather patterns; Polar, Temperate and Tropical (Part 1)	W5-9	SM-Images SM-Sentences SM-PPT
LESSON 2	Weather patterns; world weather reports (Part 2)	WS-10 WS-11A WS-11B	SM-Data supplied SM-PPT graph
LESSON 3	Main features of the World Climates	WS-12A,B,C,D,E,F	SM-UNIT2les.1-Images SM-Cards SM-Climates Dictation
LESSON 4	Effects of climate on landscape and people	WS-13A,B,C,D,E,F WS-14	SM-PPT SM-Facts SM- Book
LESSON 5	Extreme climate regions: Polar and Desert regions (Part 1)	WS-15 WS-16A and B	SM-Cards SM-PPTCards SM-PPT
LESSON 6	Extreme climate regions: Polar and Desert regions (Part 2)	WS-17A,B andC WS-18	SM-Matching cards SM-PPTQuiz SM-Assessment
	UNIT 3: CLIMATE	S & LIFE IN SPAIN	
LESSON 1	Types of climate in Spain	WS-19 WS-20Aand 20B	SM-Puzzels&maps SM-Cards
LESSON 2	Comparing different climates.	W5-21 W5-22	SM-Cards
LESSON 3	Effects of climate on landscape in Spain	WS-23	SM-Song SM-PPT
LESSON 4	Global Warming: Climate Change (Part 1)	WS-24 (steps 1,2 and3) WS-26 A,B,C,D,E,F	SM-PPT-Average SM-PPT
LESSON 5	Global Warming: Climate Change (Part 2)	WS-27 WS-28 A,B and C WS-29	SM-PPT SM- Assessment

CLIMATE WORLDWIDE			
UNIT: 1	WEATHER PATTERNS	Sessions: 4	Time:4h.
Lesson: 1	Weather & Climate		1h.
	TS: Iren should understand the concept of cliner of cliner of cliner of cliner of cliner of cliner of context.		ne differences
Students: It's Teacher: So, here places? Pictures showing di Ask children to po individual children:	's the weather like today?" in the weather is , but wha fferent weather in different places shoul bint to a place where it rains etcTh her like in picture number 1,2 .	d be put on the en point to a pi	wall. icture and ask
section, to each gro on the criteria. Write two headings cards under this cr Ask them why they of different things	fours) f cards (SM-UNIT1lesson1-Cards), provi oup of four and ask students to classify t s on the board: WEATHER/ CLIMATE ar iteria, first in groups and then on the boa think you have chosen these criteria. E precipitation, temperature, winds, sunsh erved and recorded weather conditions	hem into two gro nd ask students t rd. xplain that weath iine, clouds, visibi	ups and agree to classify the ner is made up ility etc., while
Give out a different in the students' wor graph. They work in pairs student A's missing	airs) "Complete a weekly temperature gro at worksheet to each student with two un rksheet (WS-1A and WS-1B) and tell ther s, student A has student B's missing in g information. Each one has a different p lete the missing information in their gr	ifinished graphs on n not to show the nformation and s worksheet with t	eir partner the student B has two unfinished

Student A: -How much rain is there on Monday?

Student B: -There is 23, 34 etc...mm. (millilitres)

turns.

Student A: - What's the temperature on Saturday?

Student B: - It is 25°C, 22°C... degrees

Write on the board questions like:

	the coldest	
What was	the hottest	dav2
What was	the wettest	day?
	driest	

When students have finished asking the questions, encourage them to ask each other.

ACTIVITY 4: (Plenary) "Slideshow conclusion"

Show slides one by one (SM-UNIT1lesson1-PPT) provided in the Supplementary material section, ask the question and let students guess the answer. Review basic weather vocabulary.

RESOURCES:

- Weather pictures(SM-UNIT1lesson1)
- Cards graphs and weather conditions. (SM-UNIT1lesson1)
- Worksheet (WS-1A and WS-1B)
- Power point presentation (SM-pptUNIT1lesson1)

WS = Students' Worksheets SM = Supplementary Material Section

UNIT: 1	WEATHER PATTERNS	Sessions: 4	Time:4h.
Lesson: 2	Climates and Places	<u>-</u>	1h.
LEARNING TARGE In this lesson child	TS: ren should learn about different wea [.]	ther conditions in	some places.
know, write them a		•	•
Give students a pie Tell them they have You can either read <u>http://www.youtub</u> <u>http://www.multime</u> If you choose the w students raise thei Give out worksheet	ather words in a song" ce of paper and ask them to write d to raise their word when they hear the song provided or try to go to th <u>be.com/watch?v=uriObwm656Q</u> <u>edia-english.com/contenido/ficha/the</u> vebsite option, hide the screen, and j r weather words. (WS-2), provided in the supplemento gain and complete the words missing	it. nese websites: <u>e-weather-song/4</u> ust listen to the s ary material sectio	77 ong while
ACTIVITY 3: (In g Bring some travel of students to imagine destinations on off places cards, provid Also you can use a w Put students in gro In order to make t in each destination climate and clothes questions about eac - What do you - How do you h Ask students to ch choices.	proups of 4) "Travel Agency" agency brochures (it doesn't matter e that they have won a travel prize a fer. Show the power point slides 1 to ded in the supplementary material se world map to show where these places ups of three and give out copies for heir choices, they need to find out al . Children match the cards in groups s to wear). Check the answers show ch place like: thing the weather is like in this place know? noose two favourite destinations and	if they are not in nd they can choos 7 (SM-UNIT1-les ection (SM-UNIT s are found. the five destination out the weather (places, activities ing power point s ace?	se one of the five sson2-PPT) or the 1lesson2- Cards) . ons to each group. and the activities , climate, specific lides 7 to 11. Ask
	peen adapted from): ctoffice.gov.uk/education/teachers/w	veather_data.htm	L
Pluvia Loriente		CEIP JOSEP TA	RRADELLAS 5

ACTIVITY 4:

Give out WS-3, ask students to write down their chosen destination and be ready to agree with their partners using the following language support:

I'd like to go to		I like going	to the beach. to the forest.
	because	I like	visiting places. Skiing.
I want to go to 		I can see	bears. camels. a desert.

ACTIVITY 5: (Plenary)

One student from each group tells the rest of the class their group's destination and gives reasons for their choice.

Ask individuals general question like:

How do you know what the weather will be like in this place?

RESOURCES:

- Song lyrics provided in Supplementary Material or internet access to <u>http://www.youtube.com/watch?v=uriObwm656Q</u> http://www.multimedia-english.com/contenido/ficha/the-weather- song/477
- Song worksheet. WS-2 (Students' worksheets section).
- Song (SM-UNIT1lesson2)
- Power point presentation(SM-ppt UNIT1lesson2).
- Language support worksheet WS-3 (Students' worksheets section).

WS = Students' Worksheets

SM = Supplementary Material Section

UNIT: 1	WEATHER PATTERNS		Sessions: 4	Time: 4h.
Lesson: 3	Climate zones around the Earth	(Po	art 1)	1h.
the different angle	TS: ts should understand that the Earth es of the sun's rays when they hit and the location of the three main cl	the	e Earth. Student	
TROPIC OF CANCE each group of 4 stu They put the letter students for the m Use a world globe t	ary) "warm up" to build up the words: EQUATOR ER - ANTARCTIC CIRCLE - ARCT dents to form a word . rs together to form the word and sti eaning of these words and why they o o tell the students about the imagina e globe and ask students to label the	TC ck t are (ry li	CIRCLE Give th hem on a strip of useful. nes on earth.	e letters to f paper. Ask
SM-UNIT1 lesson3 that the Earth is a rays hit the area a Tell them also that	ary) ate zones on Earth through the Pou -PPT) provided in the Supplementary a sphere, so the Sun heats the tropic round the Equator full on and make t r near the poles the Sun's rays strike er area, and warm it less. Encourage	/ Ma s ma his the the	aterial section. T ore than the pole the hot region o e Earth at a low	ell students s. The Sun's f the Earth. angle. They
ACTIVITY 3 : Using worksheet W students' understar Give them a few mi				
Give out the map V the students under describe the diffe down the names of Either write on the	w climate zones can be shown on a ma VS-5 (provided in the Students' wor stand the map. Begin by locating: Spa rent climates zones. Ask students t the tropics. board two tables like the ones shown ve out a photocopy.	kshe ain, o lo	a continent and cate the Equato	a sea. Then r and write

Climate zone	My Countries
Hot	
warm	
cold	

Language support:

- What is your country in the hot zone?
- What is your country in the warm zone?
- What is your country in the cold zone?

Climate zone	My partner's Countries
Hot	
warm	
cold	

Using an atlas to help them, students write down, the name of three countries in each zone. Then they ask to a partner for their choice and write them on the partner's table. Finish the lesson with the "DO YOU KNOW" in the SM-UNIT1 lesson3-PPT (slides 2 and 3). Ask students the questions and wait for the answer.

RESOURCES:

- Letters cards
- Earth globe
- Some Atlas
- Power Point (SM-UNIT1lesson3)
- Worksheet WS-4
- Worksheet WS-5

WS = Students' Worksheets

SM = Supplementary Material Section

UNIT: 1	WEATHER	PATTERNS	Sessions: 4	Time:4h.
Lesson: 4	Climate zones c	around the Earth (1	Part 2)	1h.
climate and learn a	nts should underst bout the Earth's cl g-term weather pa	and the relationship imate zones accordir tterns make a climat	ng to temperatur	e. They will
Write half of the the worksheet WS	climate words nam -6.	iew key climate words es on two cards with sert. and so on		
words and the colo		lents match them. As a key code.	k them what the	ey think the
climates and the (UNIT1lesson4-PPT UNIT1lesson4-Map their climate map. Give out worksheet When the students	that the words sho e colors are the) or make a colo) to help students WS-6 and ask them	wn on the board ar key to read the cl ured photocopy for to understand the t n to complete their w hem to check their w	imate maps. Use r each group of ask and colour ork individually.	e slideshow four (SM- the key in
- It is grey Write on the board What climate typ In India there is c	: e is there in India: aclimate			
ACTIVITY 3 : (Indi As an evaluation ac of the words in	ividual) "Word relat tivity, give out wor the box. Tell the riting on the less-al		e students know ' words in the r	right space.
	dividual) "self evalua they have finished	tion" d working on Unit 1	and you want to	o know how

confident they are about the things they have learned in this Unit.

Hand out the self-evaluation sheet (WS-8) and explain that this is a graph like they did in the previous lessons but now they will complete it with their own answers. Read the sentences in the axis line aloud and ask individuals how confident they feel talking about these matters.

It could be good to collect the sheets and compare with your opinions about the same items. Teacher's observation sheet in the Supplementary Material Section (Assessment)

RESOURCES:

- Letters cards
- Power Point (SM-UNIT1lesson4)
- Climate map (SM-UNIT1lesson4Act.2)
- Worksheet (WS-6)
- Worksheet (WS-7)
- Worksheet (WS-8)

WS = Students' Worksheets Section SM = Supplementary Material Section

UNIT: 2	CLIMATE & LIFE AROUND THE W	ORLD	Sessions: 6	Time:6h.
Lesson: 1	Weather patterns; Polar, Temperat	te and Tro	pical (Part 1)	1h.
These seri	TARGETS: es of lessons are designed to desc nould learn about the main climate fea		•	of weather.
Write down pictures of (SM-UNITA pictures on from those places and that place". - How of - When - What	1:(Plenary) "warm up" the headings: POLAR - TROPICAL landscapes from the Polar zone, the T Plesson1-Images), provided in the Su the board next to the headings and climate zones. Encourage the stude close their eyes. Tell them that you w Ask questions like: do you feel? - Are you e are you? - Who ar are you doing? - What a ts a few seconds and when finished as	emperate upplementa explain th ants to cha vant them u cold/war e you with are you we	zone and the Tro ary material section that these pictures bose one of their to "imagine that rm/hot? n? earing?	opical zone ion. Put the s are places r favourite they are in
	Student's name w	here were vere you c ho were y hat were	old ?	
	2 : (Plenary and pairs) ts that today they will learn more abo ic zones.	out the we	eather patterns ir	the three

Write the table as below on the board or on backing paper .

Hand out the sentences provided in the supplementary material section (SM-UNIT2lesson1-Sentences). Give one to every two students, they read in order from number 1 to number 13 and place them in the corresponding zone.

Polar	Temperate	Tropical

ACTIVITY 3:

Cut in two the strip sentences provided in the Supplementary material section

(SM-UNIT2lesson1- Sentences). Give out two sentences to each pair of students. Half the class will have from number 1 to number 6 and the other half of class from 7 to 12. Students match the halves to build up a sentence and put them in order. Remind students that we use a capital letter at the beginning of a sentence and full stop at the end. When students have finished, read the sentences aloud in order from 1 to 12. Collect the strips of paper and hand out the worksheet WS -9. Ask students to complete the text individually.

Differentiate by writing a letter in each missing word and a number in its corresponding gap in the text. Ask less-able students to write the words matching the numbers.

ACTIVITY 4: "Average solving"

Tell students that it is time to change subject and a seal needs their help. Show them power point slides 1 to 7 (SM-UNIT2lesson1-PPT) provided in the Supplementary material section. Read and ask questions for understanding. Give out a separate piece of paper and encourage students to solve the problem using different strategies. Accept all the reasonable solutions and then show slide 8. (On Sunday the seal can eat eight pieces of fish because the average amount of fish she has eaten so far is 4'5 pieces a day. But you can accept that the seal can eat 5 pieces of fish because this is the average amount of fish a day she can eat).

RESOURCES:

- Sentences sheet (SM-UNIT2lesson1)
- Matching sentences (SM-UNIT2lesson1)
- Worksheet (WS-9)
- Power Point (SM-UNIT2lesson1)

WS = Students' Worksheets Section SM = Supplementary Material Section

UNIT: 2	CLIMATE & LI	FE AROUND THE WORLD	Sessions: 6	Time:6h.
Lesson: 2	Weather patto	erns; world weather reports	(Part 2)	1h.
for information	n, students enlar	ge their knowledge about wea et and comparing what they fir ph.	• •	-
Explain to stu climate zones reporting it to	s. Tell them the o the class.	r information" are going to compare tempe y will do this by searching f ries and the corresponding cit	or internet info	
			Curada	n
E	gypt	Spain	Swede	
As Divide the clo ensure that WS - 10 pro follow during	swan ass into three gr the three countr vided in the wor their search. In	Barcelona Barcelona oups. Tell them that each gro ies and cities are taken. Give o ksheet section and explain to exercise number 6 they only c / *** (If there is any p	Stockholn oup can chosse a out the database o the students t omplete the first	n country bu e workshee he steps t t chart.
As Divide the cla ensure that WS - 10 prov follow during <u>http://worldw</u> Internet, giv UNIT2lesson	swan ass into three gr the three countr vided in the wor their search. In weather.wmo.int ve a copy per gr 2-Data supplied)	Barcelona oups. Tell them that each gro ies and cities are taken. Give a ksheet section and explain to exercise number 6 they only c	Stockholm oup can chosse a out the database o the students t omplete the first problem with the TEMPERATURE" .t.	n country bu e workshee he steps t t chart. e access t
Asi Divide the cla ensure that WS - 10 prov follow during <u>http://worldw</u> Internet, giv UNIT2lesson When student	swan ass into three gr the three countr vided in the wor their search. In weather.wmo.int ve a copy per g 2-Data supplied) ts have finished o	Barcelona oups. Tell them that each gro ies and cities are taken. Give a eksheet section and explain to exercise number 6 they only c 2 *** (If there is any p roup of the "COMPARING , avoid step 5 in the workshee collecting the data, write on th rature inin	Stockholm oup can chosse a out the database o the students t omplete the first problem with the TEMPERATURE" .t.	n country bu e workshee he steps t t chart. e access t cards (SM
Asi Divide the cla ensure that WS - 10 prov follow during <u>http://worldw</u> Internet, giv UNIT2lesson When student - What - It wa Put students is ask each othe	swan ass into three gr the three countr vided in the wor their search. In <u>weather.wmo.int</u> ve a copy per g 2-Data supplied) ts have finished of was the temper as degree	Barcelona oups. Tell them that each gro ies and cities are taken. Give a eksheet section and explain to exercise number 6 they only c 2 *** (If there is any p roup of the "COMPARING , avoid step 5 in the workshee collecting the data, write on th rature inin	Stockholm oup can chosse a out the database o the students t omplete the first problem with the TEMPERATURE" t. ne board: January/Februa e, and encourage	n country bu e workshee he steps t t chart. e access t cards (SM ry etc

Tell students how to make a graph to compare the three cities' temperatures. Give out worksheet (WS -11A), differentiate by encouraging less-able students to add only Barcelona data on worksheet (WS - 11B). Give some time to finish the graph.

ACTIVITY 3: "Comparing temperatures in different world climate zones" Show students Power Point (SM-UNIT2lesson2-Graph) provided in the Supplementary material section.

Ask students to check their work and consolidate their learning by asking:

- What was the temperature in (City) in (Month)?
- What was the difference between (City) and (City)?
- What was the coldest city in (Month)?
- What was the hottest city in (Month)?

RESOURCES:

- <u>http://worldweather.wmo.int/</u> or (SM-UNIT2lesson2Act.1)
- Worksheet (WS-10)
- Worksheet (WS-11A and 11B if necessary)
- Power Point (SM-UNIT2lesson2)

WS = Students' Worksheets Section SM = Supplementary Material Section

UNIT: 2	CLIMATE & LIFE AROUND THE WORLD	Sessions: 6	Time:6h.				
Lesson: 3	Main features of the World Climates	•	1h.				
LEARNING TARGETS: In this lesson students should learn to identify world climates, to analyze how climate affects landscapes and to recognize the relationship between vegetation and climate.							
(Prepare as many cards as students in your class, supplied in the Supplementary material							
 section). ACTIVITY 1:(Plenary) "warm up" Show the three different landscapes provided in the Supplementary material (SM-UNIT2lesson1-Images) or whatever landscape posters you have with views from different and contrasting climate conditions. Encourage them to answer your questions: What differences can you see among these landscapes? Why do you think these landscapes are so different? Can we see a similar landscape in our area? 							
- In which d	- In which of them would you like to live? Why?						

Give out one card per student: (SM-UNIT2lesson3cards)

DESERT	ESERT Where are you from?		Where are you from?	WARM	Where are you from?
	I am from Aswan		I am from Churchill	TEMPERATE	I am from Barcelona
COOL TEMPERATE	Where are you from? I am from Edinburgh	TROPICAL	Where are you from? I am from Manaus	MOUNTAIN	Where are you from? I am from Innsbruck

Ensure there are six groups, as many as there are different types of climate. There should be four students in each group.

Tell students to pretend they are from the place given on the card. Ask them to stand up and find those classmates who are from the same place by asking the question on the card. When they have found them ask students to keep the card and sit together.

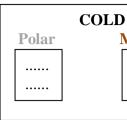
ACTIVITY 2: (groups of four) "wall dictation"

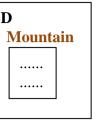
You have already prepared three big pieces of backing paper and written the headings on each piece of paper: COLD - TEMPERATE - HOT and put them on different walls in your class. Also you have stuck the texts for the two types of climate on each zone (SM-UNIT2lesson3-climates) supplied in the supplementary material section.

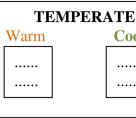
Encourage students to guess which climate zone and which climate type their place card from the previous activity belongs to.

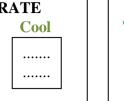
Call out a type of climate and ask them to stand up and go to the corresponding display. Give each group the name of their corresponding climate, e.g. POLARS those who have the polar climate Churchill card, WARMS those with the Barcelona card, COOLS with the London card, DESERTS with the Aswan card, MOUNTAINS with the Innsbruck

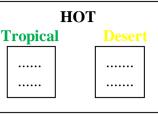
card and TROPICALS those who have the Manaus card. Ask the groups to sit together. Give out WS-12 (front and back) to the corresponding group.











Give each member of the group a number from 1 to 4. Tell them that student number 1 should go to the wall, read a sentence and report it to their group. Each one in the group copies the sentence or part of the sentence onto their worksheet. Now it is the turn of student number 2 and so on.

When the groups finish the dictation text they complete the chart below by transferring the information in the text.

ACTIVITY 3: "Information reporter"

Students are in the same group as for the previous activity with the information from the text on worksheets 12A,B,C,D,E and F. Tell them that one from each group will be a reporter, encourage the groups to choose their own representative. One reporter at a time answer the classmates' questions and the rest of them write the climate on the top of the box on the back of the sheet and complete the information gaps for each type of climate.

Write on the board the following questions:

-Where are you from?

-What type of climate is there in.....?

-What is the average temperature/precipitation/sunshine?

-What are the winds like?

ACTIVITY 4: "Travelling to" ICT focus

The activities related to weather on this bbc website give a good opportunity to review the content taught in this lesson,

http://www.bbc.co.uk/schools/whatisweather/

RESOURCES: - Where are you from cards.

- Three large pieces of backing paper.
- Climate facts dictation (SM-UNIT2lesson3)
- Worksheet (WS-12A,B,C,D,E and F, front and back)

http://www.bbc.co.uk/schools/whatisweather/

WS = Students' Worksheets Section SM = Supplementary Material

UNIT: 2	CLIMATE & LIFE AROUND THE WORLD	Sessions: 6	Time:6h.				
Lesson: 4 Effects of climate on landscape and people 1h.							
LEARNING TARGETS: By the end of this lesson it is expected that children will be able to explain physical and human characteristics of places, and their similarities and differences. Also explain patterns of physical and human features.							
ACTIVITY 1:(Plenary) Introduce the lesson by showing the Power Point (SM-UNIT2lesson4PPT) Ask your students to predict what they will see, encourage students to talk about the main features of the different climates already learnt in previous lessons. Use them for discussion about weather, landscapes Any information will be used in activity 2. T - What climate type do you think there is in this place? S - Mn, Polar, tropical (show the information and continue asking specific questions) T- In which continents do you think it is found? S- Mmm, I think it is in America							
And so on							
ACTIVITY 2: (groups of four) Ask students to go into the same group they worked with in the last class (Polars, Warms, Cools, Deserts, Tropicals and Mountains). Name one secretary in each group and remind them the city which they belonged to. Explain to them that at the end of the lesson they will be experts on their countries and then will know more about the other groups' countries. They need to know more things about the area where they are supposed to live because they will give the rest of the class a detailed report of their climate zone, so that their partners say whether or not they would like to visit the place. Provide each group with an Atlas.							
worksheets se Students loce	5-13 A,B,C,D,E,F to each corresponding gr ection) ate their city on the map and, using the A a the same type of climate. They write down the	tlas, they look	for three				

the page.

ACTIVITY 3: (in pairs and in fours)

Hand out a copy of the climate fact file (SM-UNIT2lesson4-facts) to each pair in the corresponding group. The student with the fact file sheet reads the information aloud up to the triangle sign \blacktriangle and their partner makes notes in the corresponding boxes in the sheet (Rough Draft WS-14) They then swap roles and student B reads while student A makes notes (on the same sheet). The students should have one completed worksheet between them. They discuss together if they are happy with the information on it with the whole group and then each student copies their final agreed ideas onto a new worksheet each (WS-14) to refer to in the next part of the lesson. Language support:

It	always usually occasionally never	snows. rains.
It's	always usually	hot. warm.

	occasionally never		cold.
always		strong	

aiways There's usually occasionally never	۵	strong gentle	wind.	
--	---	------------------	-------	--

ACTIVITY 4:

When students have written the information sheet, get the whole class's attention. Write on the board the questions in the box below.

Tell them that now they have to answer their classmates' questions. Ask one group to sit in front of the class with their papers, the rest of the class ask the questions in the box below.

- -It is cold/hot there?
- -What is the average temperature?
- -Does it snow/rain there?
- -How many seasons are there?
- -Where is this climate found?
- -What is the vegetation like there?
- -Are there a lot of people or a few of them?

RESOURCES:

- Some Atlases or world maps.
- Power point(SM-UNIT2lesson4)
- Worksheet WS-13 (A,B,C,D,E,F)
- Worksheet WS -14 and rough draft.

WS = Students' Worksheets Section

SM = Supplementary Material Section

EXTRA ACTIVITY: "Let's make a book about the world's climates"

(This activity could be done as an extra activity for homework and during the next two lessons)

Tell students that they will make one book about the world and its climates. Each climate group will make a chapter. The class decides who makes the front and back cover. Each group presents a front and back cover and they choose the best.

Motivate students by asking them to imagine a new book about the world's climate.

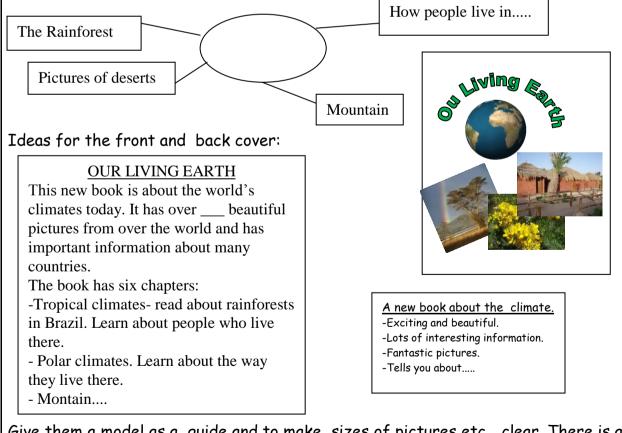
- What do they think is in it?

-What pictures does it have?

-What does it tell them about the world?

-How are the chapters organized?

Brainstorm, write their ideas on the board and suggest your ideas to them.



Give them a model as a guide and to make sizes of pictures etc... clear. There is an example in the Supplementary material section (SM-UNIT2lesson4book)

UNIT: 2	CLIMATE & LIFE AROU	ND THE	WORLD	Sessions: 6	Time:6h.
Lesson: 5	Extreme climate regions	: Polar an	d Desert re	gions (Part 1)	1h.
In these tw how differ	TARGETS: vo lessons students compo ent climates affect livin how climate influences hur	g things	and life in	general They	-
Use the s section: Th template t Differentia them.	1:(Plenary and threes) "w et of cards (SM-UNIT21 ere are two different siz to make the classification te less able students usin me board the following langu	lesson5-Co zes. You o on easier ng the ter	can use eith or the b nplate. Print	er the little or ig ones withou	nes with the it template.
I think this	s landscape goes with this	food people house	because it is	s usually hot war	t there.
Ask studen traditional Encourage t questions li - Why do - Why do	three students a set of land ts to look at the pictures o houses, food and clothes. them to give reasons and to ke: In each climate; you think the houses are they eat that food? they wear those clothes? eal matching cards with the	f differer o tell the c like that?	it places and class their id	match them to eas by asking th	the em
Explain to s regions: Pol Show them the supplem - What - What Encourage of	2: (Plenary and individual) itudents that today they will ar and Desert. the first slide of the pow mentary material section. A can you see in the pictur is the weather like there there any animals or plant each pair of students to di f a desert. They should ag	wer point sk studen ⁻ re? e? e? iscuss the	presentation ts questions l e picture and	(SM-UNIT2les ike: ask them to co	son5-PPT) in me up with a

place".

Continue with the content power point presentation (slides 1 to 13) Stop at each slide and before showing content, ask the question and encourage students to look for an answer.

Pay attention to the end warning, slide 12 "Deserts are getting bigger" and discuss it with the whole class.

Stop power point and give out worksheet WS-15. Students make their choices on their own. Observe individual understanding for evaluation.

ACTIVITY 3: (plenary)

Continue the polar regions power point presentation, asking students in the same way as in the previous activity for the desert regions. Stop and ask them to come up with definitions if possible.

Discuss the end warning on polar regions, any conclusion is worthwhile to link to the last two lessons in Unit 3 about global warming.

ACTIVITY 4: (pairs)

Put students in pairs, one will be Student-A, the other Student-B. Give out the corresponding sheet (WS-16A and B). Tell them they have some missing information in their worksheet, they will complete the missing information by asking their partner.

RESOURCES:

- Power Point (UNIT2lesson5)
- Worksheet(WS-15)
- Worksheet (WS-16 (A & B)

WS = Students' Worksheets Section SM = Supplementary Material Section

UNIT: 2	CLIMATE & LIFE AROUND THE WORLD	Sessions: 6	Time:6h.				
Lesson: 6	Extreme climate regions: Polar and Desert re	gions (Part 2)	1h.				
LEARNING TARGETS: In these two lessons students will compare the lifestyles in different regions, looking at how different climates affect living things and life in general They also should understand how climate influences human activity and culture.							
ACTIVITY 1:(Plenary) "warm up" Give each student a matching card, word and definition, from the (SM-UNIT2lesson6- Cards) in the Supplementary material section. Ask students to find their matching partner. (Observe individual understanding for evaluation).							
ACTIVITY 2: (Groups of three) Put students into groups of three (A, B, and C) Give out the WS- 17 (A, B, C) Student A reads part 1, student B reads 2 and student C reads 3. They then decide which title to write for their text. <u>Student A asks B</u> 1. What life can we see in the deserts? 2. How much of the world's land surface do the deserts cover? 3. What is happening to the deserts?							
2– Wher	asks C has a strong effect on humans? e are the uninhabited territories? is happening to the semi-deserts?						
Student C o 1 - What 2 - What	Student C asks A 1-What life can we see in Antarctica? 2-What is happening to the polar cap? 3-Why is this dangerous?						
Hand out W	5-18 and they read the three texts to check the 3: Let's see how much have we learnt"		non (Tf.vov				
choose a pie Tell student	You can either give out a small white board to each student or a piece of paper. (If you choose a piece of paper, ask students to write down numbers from 1 to 25). Tell students they will do a quiz about what they have learnt in Unit 2.						
• •	point presentation climate quiz (SM-UNIT2lesso s write down their answers. Observe individual ar		•				

UNIT: 3	CLIMATES & LIFE IN SPAIN	Sessions: 5	Time:5h.
Lesson: 1	Types of climate in Spain		1h.

LEARNING TARGETS:

This series of lessons is designed to help students to recognize the types of climates in Spain. Also to define flora within the climate regions and to realize the connections between them.

ACTIVITY 1:(Plenary) "warm up"

You will need a climate of Spain map poster. Put it on the wall and stick around the sentences provided in the Supplementary material section.

Make a photocopy of the Spain climate puzzle and the climate key strips, cut it and laminate if possible. Do the same with the Spain climate map. You will find all of this material (SM-UNIT3lesson1-Puzzles&maps) in the Supplementary material section.

Ask students to read the sentences on the wall and guess the answers.

Give one piece of the puzzle and the climate key strips to each one or two students. Tell them this is a puzzle and ask them to stick the matching pieces together. Use the climate map template as a reference to help them to shape the climate map of Spain.

Activate the students' attention by asking:

- Can you guess the topic of the lesson today? (write it on the board)
- How many climates are there in Spain?
- What are the climates' names?
- What colours will we use for the key?

ACTIVITY 2: (Individual)

Give out the WS-19 and ask students to colour the key and the different climate regions on the map of Spain. Using an Atlas write down the name of a city in each climate region.

ACTIVITY 3: (in pairs)

Write on the board:

-What city is in (6, 8)?

-It is

Put students in pairs and tell them that one of them will be student A and the other student B.Student A asks student B and student A completes their city, then it is student B's turn.

Give them their corresponding worksheet (WS-20A and WS-20B) and tell them not to tell their partners.

ACTIVITY 4:

Give each student one information card (SM-UNIT3lesson1-Cards) from the Supplementary material section, they read aloud the climate information on it. First

read all "As" students and students "Bs" do it after. When they have finished ask those who has the city with the same type of climate to join together.

RESOURCES:

- Climate map of Spain poster (No provided)
- Wall questions. (SM-UNIT3lesson1)
- Spain climate map puzzle and key strips (SM-UNIT3lesson1)
- Spain map template (SM-UNIT3lesson1)
- Worksheet map (WS-19)
- Worksheet A and B (WS-20A and 20B)
- Cities information cards (SM-UNIT3lesson1)

WS = Students' Worksheets Section

SM = Supplementary Material Section

UNIT: 3	CLIMATES & LIFE IN SPAIN	Sessions: 5	Time:5h.
Lesson: 2	Comparing different climates.		1h.

LEARNING TARGETS:

In this lesson students will compare weather conditions in different cities located in different climate regions within Spain. They will make some temperature and rainfall graphs.

ACTIVITY 1: (Plenary) "Loop game"

Give each student a card from the loop cards game (SM-UNIT3lesson2Act1) provided in the Supplementary material section. Explain to them that in their cards they have an answer for the classmate who asks them and a question for them to ask.

Start and finish the loop with the coloured card.

BARCELONA It is 13°C What's the temperature in Madrid?

ACTIVITY 2: (group and individual)

Tell students they will compare the average temperature and rainfall in five different cities, each one located in one of the five different types of climates in Spain. They will collect the data from the internet; <u>http://www.worldweather.org/083/m083.htm</u>,

then they will share the information with their classmates and finally, display it onto a graph.

Write on the board the cities; **Barcelona**, **Bilbao**, **Madrid**, **Almeria**, **Sevilla**, **Valladolid**. Put students in groups of four. Give out the worksheet (WS-21) and each group writes down the name of their city. Read the instructions out loud and check understanding. While searching, students complete WS-21. If there is any difficulty with decimal numbers, allow students to round numbers.

ACTIVITY 3: (Group, individual and pair)

Ask students questions about the average temperature on their charts:

- What's the average temperature in January/February etc.. in?

- What's the average rainfall in January/February etc......in?

Give out the worksheet (WS- 22) and students make the average temperature and rainfall graph with their city information chart. Make sure they know how to make the graph. Then they write down which type of climate there is in their city.

When all the groups have finished, put students, in pairs each one with a different city graph . They compare the two cities. Write on the board some language support;

The average temperature in	Barcelona Bilbao Sevilla Almeria	is	higher Iower	than in	Barcelona Bilbao Madrid Sevilla	
----------------------------	---	----	-----------------	---------	--	--

The average rainfall in			Madrid		less more		Almeria Vallada		
Barcelona Bilbao Madrid Sevilla Almeria Valladolid	is	hotter colder wetter drier	than	Barcelona Bilbao Madrid Sevilla Almeria Valladolid	because	e it has a	Continen Meditern Oceanic Semi-ar	ranean	climate.

ACTIVITY 4: (pairs)

Ask some students to perform a TV forecast to describe the climate and the weather in their cities. Give them a sheet with the language support to do the performing. You may adapt from this example:

PERFORMING TEMPLATE

- As you know,	ha	s a	_ climate
-We usually have	cold warm mild wet dry	weather.	

- Today the weather is _____
- Tomorrow the weather will be____
- So, enjoy doing what you want.
- Have a nice day! Bye!

Students report the weather information from their city weather forecast.

RESOURCES:

- Loop game cards (SM-UNIT3lesson2)
- Work sheets (WS-21 and WS-22)
- Website : <u>http://www.worldweather.org/083/m083.htm</u>
- Performing language sheet

UNIT: 3	CLIMATES & LIFE IN SPAIN	Sessions: 5	Time: 5h.			
Lesson: 3	Effects of climate on landscape in Spain		1h.			
INTRODUCTION:						

In this lesson students should identify each climate by its own common flora.

ACTIVITY 1:

Give to each 5 students a verse (SM-Unit3lesson3-Song) provided in the Supplementary material section. Ask them to read it and draw it on a sheet. When they have finished pick up one drawing of each group and put them on the board, write a letter below each picture (there must be 5 pictures). Ask students to write numbers from 1 to 5 on a separate piece of paper.

Tell them you will read the text (if you could find the song it would be better to listen to the song) and they will match the letters of each drawing with the numbers on their sheet so, they have to write the letter with the corresponding number.

ACTIVITY 2:(Plenary)

Introduce the lesson showing the first slide of the power point presentation (MS-UNIT3lesson3-PPT) in the Supplementary material section. Ask the question hiding the answer and elicit students' guesses. Activate students' knowledge.

ACTIVITY 3: (individual assessment)

Give out worksheet WS-23 (students' worksheets section). Explain to them not to tell their partners. Read aloud and ensure students' understanding. Choose three pictures from the (PWP-UNIT3lesson3) including one of the semi-arid climate. Show the pictures for the first exercise, ask students to circle the answer and give reasons. Students make their choices individually.

ACTIVITY 4: "Let's make a display"

(Tell students the day before, so that they can search for extra information and bring their own pictures)

Prepare the display board by covering it in black paper.

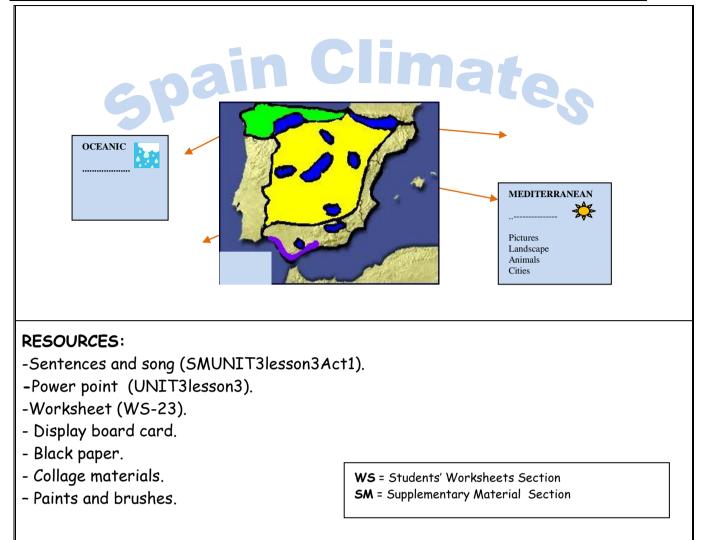
Cut out a large paper circle and draw an outline map of Spain on it. Students colour the map or cover it with little balls of tissue paper to show the land and sea areas.

Cut out smaller circles from card, one for each climate zone group.

Put students in 5 groups, one for each type of climate. Explain to them they will work on one specific type of climate, tell them which one.

Ask students to design a collage to show some of the characteristics of the different climates. Ideas could include temperature, vegetation etc...

Give the students a selection of collage materials and paints to create their picture. Label the areas of research and link them to the Spain map with arrows.



UNIT: 3	CLIMATES & LIFE IN SPAIN	J	Sessions:5	Time: 5h.			
Lesson: 4	Global Warming: Climate Cha	nge (Part 1)		1h.			
LEARNING TARGETS: In this lesson students should learn what global warming is. They will understand why the Earth's average temperature is rising and the consequences of it.							
Write on the Remind stude the Semi-dese Explain to s	(Plenary) "warm up" board the following heading "GL hts of the last class conclusions ert areas becoming deserts. tudents that today they will of global warming "the sea level	about the ice co I do an experi	ap pole getting				
ACTIVITY 2: (Plenary) "Warming Experiment" EXPERIMENT GUIDE							
	MATERIAL NEDEED	Р	ROCEDURE				
MATERIAL NEDEEDPROCEDURE- Three lumps of ice (the same volume) Three measuring jugs (more than 1l.) Three colanders Three thermometers A clock Some water Some water Three thermometers A clock Some water Three thermometers A clock Some water Three thermometers A clock Some water Three thermometer and water (one liter, if the jug is small less water but don't fill to the top).2. Put the colander on each jug.3. Drop the ice into each colander.4. Place the jugs: (A) outside (no sun),(B) in the room (far from the heater)(C) next to the heater.5. Place the thermometer and write dowr the temperature in each place. Record on worksheet WS-17A- Back.6. Record the level of the water in each jug and the time. The next observation will be in one hour's time.7. Record the second observation.8. Do the last (third) observation and record the levels and the time.							
With this experiment you will see that the level of the water in the jug rises depending on the air temperature. This is because with higher temperature, ice melts quicker. This is quite obvious but it is worth using it to motivate students and make them curious about the subject.							

Ask students to get into groups of four (suggest the last lesson groups: Polars, Warms, Cools, Deserts, Mountains and Tropicals) and name a representative.

Give out the warming experiment worksheet WS-24 (step 1, 2 and 3). Explain the procedure and focus on the first point which is the thing they will investigate. Write

on the board; **What are we investigating?** Accept students' suggestions and come up with the sentence:

"How different temperatures affect water levels as a result of melting ice".

Write the sentence on the board and students copy it onto their worksheet.

Present the equipment, show the items one by one. Start the procedure and ask for representatives to do the duties. (record the time, the water level and the temperature).

Talk about students' predictions and they write down on their worksheet.

ACTIVITY 3: "find out the procedure"

Ask students to tell you what the procedure was to prepare the experiment. Tell them that each group will find out one of the instructions by decoding a message and after that they will order them and write on their warming experiment observation sheet.

Give out the WS- 26 (A,B,C,D,E,F) to each corresponding group. Students work in their group.

When all the groups have finished, the representative of each group stand in front of the class and they read the instructions. The whole class finds out what is first, second and so on.... They write it on the board and everyone copies this onto their warming experiment sheet WS-24 (Step 1, instructions)

Tell them that the second observation will be in one hour time so representatives have to pay attention (the others can remind them too). The third and last observation will be in two hours (ask the classroom teacher) They have to collect and fill on the observation worksheet.

ACTIVITY 4: (plenary) "Sea water average temperature for the seals"

Write on the Board: AVERAGE TEMPERATURE, remind students about Seal's fish average in Unit 2 lesson 1. Tell them that the seal needs help again.

Review with some examples the concept of average learnt through the unit.

Show slides 1 and 2 of power point (SM-UNIT3lesson4-PPTAverage) and read the situation and the questions together. Ask students to solve the Seal's problem.

ACTIVITY 5:

Show students the first slide of power point "Do you know that....." (SM-Unit3lesson4PPT) supplied in the Supplementary material section. Talk about the topic and welcome students' knowledge about it.

Show the rest of the slides encouraging students to get involved in the topic.

RESOURCES:	
To do the experiment:	
- Three thermometers.	
- Three measuring jugs.	
- Three lumps of ice (the same volume).	
- Some water.	
- Worksheets WS-24 (front and back).	
- Worksheet WS-25 and 26(A,B,C,D,E,F)	
- Power point (UNIT3lesson4)	WS = Students' Worksheets Section
- Power point (UNIT3 lesson4Average)	SM = Supplementary Material Section

LIMATE WORLDV								
UNIT: 3	CLIMATES	& LIFE	IN SF	PAIN		Sessions	:5	Time:5h.
Lesson: 5	Global warming: How it affects Spain (Part 2) 1h.							
LEARNING T In this lessor why the Earth they become o	n students sk n's average to	emperati	ire is h	nigher and	the con	sequences o	of it in	
ACTIVITY 1: Write on eigh "OBSERVING Put the word down. Ask stu	t pieces of p ONE OF T s on the bo	aper the HE CONS ard. Put	SEQUI the w	ENCES OF	GLOB , THE,			ING face
ACTIVITY 2: (Plenary and pairs) Ask students to take out the last class observation worksheets. Ask questions about step2 : What time was the first/second/last observation? How many degrees when the first/second/third? What was the level of the water when the firs/second? Elicit the students' recorded information. Ask them to read the questions on the worksheet. Check for understanding. Write on the board some language support to help students write down their								
The level of	the water in	jug A jug B jugC	was	higher Iower	than th	ne level in	j	jug A jug B jugC
ACTIVITY 3: (Individually) Give out worksheet WS-27. Explain to students there are some words with three different options. They read the text and circle the most appropriate word. When students finish, they read the text aloud.								
ACTIVITY 4 Introduce th students the Put students they will read Give out work student C rea an appropriate	e subject by content and e in groups of some pieces sheet (WS-2 ds <u>text3</u> , ea	y showing elicit stud three ar of news 28 A,B,C) ch one co	g powe dents' nd give about).Stude omplete	er point (knowledge e each stud how global ent A read e the ques	SM-UN about t dent a lo warmin s <u>text 1</u> tions on	IT-3lesson5 he topic. etter (A, B g affects Sp , student B their works	and C) pain. reads sheet c). Tell them <u>text 2,</u> and and chooses

Give out worksheet WS-29. Ask students to read the three pieces of news in their group. They choose an appropriate title for the three pieces of news and write it down

on the heading.

Ask some volunteers to perform a TV news programme. Some music to start performance, like in TV news, could help to motivate the activity.

RESOURCES:

- Worksheet WS-27
- Power Point(UNIT3lesson5)
- Worksheet WS-28(A,B and C)
- Worksheet WS-29

WS = Students' Worksheets Section SM = Supplementary Material Section

EXTRA ACTIVITY:

In pairs from the investigation groups students go through the website page written below and write down 5 things they can do to help with the Global warming on a piece of paper. Tell them they have to share these with their partners in the next class. Allow them to go through the site on their own (they can play some games related to the topic).

If there is any problem with the access to internet or to this site, it could be good to finish the class by listening to a nice rap song about global warming. You can find this song on the website below.

http://www.youtube.com/watch?v=08z-Hw7s54E (SONG)

http://passporttoknowledge.com/polar-palooza/whatyoucando/taacc/ (SONG KARAOKE)

http://epa.gov/climatechange/kids/difference.html (WE CAN MAKE A DIFFERENCE)

Finally students either can make some notices about the things we can do in our school to make a difference and put them on the school walls or they can make a Global warming display.

RESOURCES

Reference Books:

- <u>Cambridge English for Schools.</u>
 Student's book two.<u>Andrew Littlejohn</u>, Diana Hicks.
- <u>Learning Targets.Geography.Key Stage2.ScotlandP4-P6</u> Stephen Scoffham, Colin Bridge.Terry Jewson.
- Essential. Geography and History1 Santillana. Richmond publishing
- <u>Essential Science 6. Science, Geography and History.</u> Santillana. Richmond publishing
- <u>New Science 6. Science, Geography and History.</u>
 Santillana. Richmond publishing
- <u>New Science 5. Teacher's book.</u>
 Santillana. Richmond publishing
- Living Geography.
 Explore the world's oceans, rivers, weather and maps through exiting activities and experiments. Two Can publishing
- Weather patterns. Weather and climate. Terry Jennings. Evans publishing
- Polar regions. Geography Fact Files. Paul Mason
- <u>Teaching other subjects Through English.</u>Sheelagh Deller and Christine Price.Oxford University Press
- Geography on display. Claire Tinker

<u>Websites</u>

Websites used:

- http://www.iberianature.com/geography/spanish-climate/
- http://www.epa.gov/climatechange/kids/index.html
- http://www.britishcouncil.org/learnenglish-climate-change-home.htm/
- http://www.worldweather.org./
- www.bbc.co.uk/weather/weatherwise/living/surroundings/houses.shtml
- www.bbc.co.uk/learningzone/clips
- http://www.metoffice.gov.uk/education/teachers/weather_data.html
- http://www.eduplace.com/ss/maps/
- http://www.geography.learnontheinternet.co.uk/topics/desert.html
- http://www.factmonster.com/statemaps.html
- http://images.google.es/advanced image search?hl=es
- <u>http://www.flickr.com/</u>
- http://en.wikipedia.org

Useful websites:

- library.thinkquest.org/CR0210360/rainforests.html
- www.keepbanderabeautiful.org/keeprainforests.html