



INNOVATIVE MANAGEMENT FOR EUROPE'S CHANGING COASTAL RESOURCE

Investing in Opportunities



This project has received European Regional Development Funding through INTERREG IV B.



INTERREG IVB



UNIVERSITY OF ABERDEEN

Climate Change in Aberdeen City

Games

Game 1: Missing words

Aim: This game aims to show how climate change will affect Aberdeen City.

Aberdeen beach is an **important** place in Aberdeen City. It is an important economic and social resource; Shipping, oil and fishing industries are located at **Aberdeen harbour**. The beach itself is also a popular **tourist** attraction. **Climate change** will affect all of the world and Aberdeen. Climate change will bring weather **changes** in Aberdeen and **coastal** changes. Future climate change has potential to cause damage to coast. Future climate predictions for Aberdeen include: **increase** in sea level rise, **increase** in precipitation and a **rise** of 2.5°C in **temperature**. Damage by these predictions could include: **flooding** of coastal areas, increased in coastal **erosion** and damage to properties and the **fishing** and **shipping** industry. Climate change is important and **will affect** Aberdeen City.

Task: Fill in the blank spaces in the above paragraph from the words below

Missing words	
Affect	Important
Shipping	Fishing
Will	Aberdeen
Tourist	Harbour
Change	Climate
Rise	Changes
Temperature	Increase
Erosion	Flooding
Increase	Coastal

Note: Each word should only be used once within the paragraph, unless it appears multiple times within the above table

Game 2: search the words

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

Task: Find the following words in the tab.

Aberdeen	Climate change	Sea level rise	Global warming	Temperature
Precipitation	Flooding	Atmosphere	Coastal erosion	Coastal Defences
Rise	warming	Weather		

Across

- 1 **Climate** change
- 4 Temperatures, sea level and wave velocity are predicted to **rise** by 2080 for Aberdeen
- 6 **Global** warming
- 8 **Temperature** is predicted to increase for the UK
- 10 Part of the climate system (**Atmosphere**)
- 12 **Coastal defences** will help prevent against future flooding

Down

- 2 **Aberdeen** City will be affected by climate change
- 3 The Climate is generally getting **warmer**
- 5 **Coastal** erosion affects the Aberdeen coast
A rise in the level of **precipitation** Aberdeen receives will increase the likelihood of
- 7 flooding
- 9 Aberdeen will be at risk of **flooding** by 2080
- 11 Climate change has the potential to cause **sea level rise**

Game 4: Climate Change word jumble

Aim: The aim of this game is to show and describe what climate change is and how it will affect Aberdeen

Task: Arrange the phrases below under the correct heading.

What is Climate & Climate Change?	Future Climate Change Problems	Aberdeen Predictions
A warm summer	Increases in drought	Year 2080 Increase in winter rainfall by 25%
Egypt experiences hot weather	Animal species habitats and pollutions at risk	Flooding of Links golf course and harbour
Antarctic is becoming warmer	Increases in Flooding	Year 2080 – 40 day increase in warm days
UK summers are becoming longer	Coastal storms and flooding	Year 2080- Less snowfall by 90%
Climate that changes over a period of time	Extreme weather (Hurricanes) causing damage	Increases in coastal erosion
UK is warm in the summer & cold in the winter	Water and food shortage	Year 2080 – flood risks from 61cm sea level rise

Note: A total of 6 phrases are related to each heading

Game 5: Aberdeen flood mapping

Task: Attempt to answer the following questions by using the map given and the missing words below.

Questions:

1. Question one is located in the top right hand corner of the map. From using the words below, attempt to fill in the blank space. (North)
2. Question two is located in the top right hand side in the legend. From using the words below, attempt to label the item in the legend. (Scale Bar)
3. From using the words below attempt to label the feature on the map. (River Don)
4. By using the information on the map, work out the width of flooded area in m and Km indicated by the large red arrow. For example the width of the River Dee is roughly 125 m and 0.125 km wide. (Roughly 500 -575m or 0.5 – 0.575 km)
5. From using the words below attempt to label the feature on the map. (Golf Course)
6. By using the list of words below attempt to label the building shown by box 6.
7. From using the words below attempt to label the area on the map. (Harbour)
8. Label 8 refers to a sea, from using the words given to you below attempt to identify the sea for this coastline. (North)
9. From closely looking at the magnified example in box 9. Try to identify the feature being shown by using the words below. (Coastal Defences)
10. From looking at all the information displayed and given to you on the map, list the areas that will be affected by flooding. The areas that will be affected are the harbour and surrounding buildings and the area around river Don. Specifically Seaton Park will be affected.

Missing Words	
RIVER	NORTH
COASTAL	DON
NORTH	HARBOUR
STADIUM	GOLF COURSE
SCALE BAR	DEFENCES

Note: Each word should only be used once within the paragraph, unless it appears multiple times within the above table

Aberdeen - Flood mapping exercise

