



INNOVATIVE MANAGEMENT FOR EUROPE'S CHANGING COASTAL RESOURCE



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

## Game 3: Crossword

1				2								5							
										6									
								7											
						8													
																			11
									9										
3																			
						10													
4																			
				12															

**Across**

- 1 \_\_\_\_\_ change
- Temperatures, sea level and wave velocity are predicted to \_\_\_\_\_ by 2080 for
- 4 Aberdeen
- 6 \_\_\_\_\_ warming
- 8 \_\_\_\_\_ is predicted to increase for the UK
- 10 Part of the climate system.
- 12 \_\_\_\_\_ \_\_\_\_\_ will help prevent against future flooding

**Down**

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

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

**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.
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.
3. From using the words below attempt to label the feature on the map.
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.
5. From using the words below attempt to label the feature on the map.
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.
8. Label 8 refers to a sea, from using the words given to you below attempt to identify the sea for this coastline.
9. From closely looking at the magnified example in box 9. Try to identify the feature being shown by using the words below.
10. From looking at all the information displayed and given to you on the map, list the areas that will be affected by flooding.

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

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## Aberdeen - Flood mapping exercise

