Climate Change Adaptation Tool

Project name	Project Category	Project Area
School (Case Study)	Infrastructure_and_buildings	Major schemes
Flood Alleviation Scheme (Case Study)	Natural_Environment	Flood and water management
Highways Resurfacing (Case Study)	Transport	New roads
e.g. Project 4		
e.g. Project 5		

Climate Variable: Heat, Heat Waves and Extremes	Climate Variable: Sea Level Rise and Coastal Flooding	Climate Variable: Heavy Rainfall and Surface Flooding	Climate Variable: Extreme Storm and Wind Events	Climate Variable: Other	Total Score	Score out of 100
2	1	2	2	N/A	170	35

Heavy Rainfall and Flooding				Total
Is the project site at risk of river or surface or groundwater flood events?	Are there natural points in the landscape on the project site where water could amass during periods of heavy rainfall?	Does the project depend on key transport/network connections that may be disrupted during flood events?	Have appropriate measures been considered to mitigate exposure to heavy rainfall and flooding events?	
Filter17	Filter18	Filter19	Filter20	Filter21
Partially	Yes	Partially	Yes	6
Yes	Yes	No	Yes	5
Yes	Partially	No	Yes	4

Climate Variable: Heat, Heat Waves and Extremes	Climate Variable: Sea Level Rise and Coastal Flooding	Climate Variable: Heavy Rainfall and Surface Flooding	Climate Variable: Extreme Storm and Wind Events
Trends towards drier and warmer summers may affect the ability of surrounding infrastructure around the school site to cope with extreme heat stresses, therefore affecting the overall performance of school buildings, whilst artificial cooling may be required during summer months.	*N/A - site is not located near the coast*	*Analysis of UK Government Flood Maps suggests there are specific points across the school site where water could amass during periods of heavy rainfall, whilst surrounding roads show a medium to high level of vulnerability to surface flooding.*	*Potential for buildings across the school site to be affected by extreme storm and wind events (Partial Vulnerability). Further assessments needed to explore this vulnerability in further detail.*