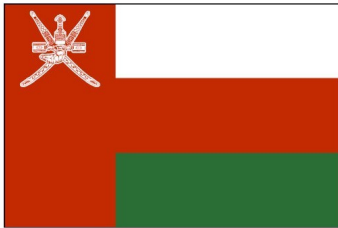


Resource Pack One: Climate Change in Oman and the UK

Task

Read the prediction for the impacts of climate change. Then reduce the main points into two Tweets (280 characters maximum each) one, to summarise how climate change might cause a change in **Oman's water supply** and the other, how it might cause a change in the **UK's water supply**.



Climate change experts predict that there will be less rain for most of the Middle East but more rain in Oman. However, temperatures will also rise so the evaporation rates will increase too.

There may be an increase in groundwater replenishment, so the water table may rise. However, there may also be higher evaporation rates (currently 80%). This could make the groundwater level fall and the water more salty (brackish).

A rise in sea temperatures are likely to increase the frequency and intensity of tropical cyclones. This would bring heavy rainfall and increased chance of coastal flooding from storm surges.

Also there will be an increase in sea level so there may be more risk of the sea flowing into the groundwater (saltwater intrusion).



Climate change experts predict that there will be more rain in the UK.

There will be a much higher flood risk.

However, rain will fall in a different way.

There will be more intense showers over a shorter period of time. More water will stay on the surface and less will seep into the ground (infiltration and percolation). This will increase flood risk and decrease the groundwater store.

Also there will be an increase in sea level so there may be more risk of the sea flowing into the groundwater (saltwater intrusion). This will make the groundwater store salty.

