**Flip learning task**

**Case study – The Siberian Tundra and changes to the carbon store**

Read the Tutor2U resource and complete the following activities **on lined paper**:-

1. Using the information in paragraph 2, construct a flow diagram to illustrate the positive feedback loop that may amplify global warming as the Cryosphere undergoes change
2. What are the effects of the melting tundra?
3. What has caused a vast amount of carbon to be locked up in the permafrost?
4. Explain the different conditions that result in the release of CO2 and methane
5. Why is the Yedona region of Siberia important and how does it compare to global permafrost?
6. Despite the release of CO2 and methane from melting permafrost, the tundra is acting as a carbon sink. Why is this?
7. What are the future concerns and what might happen when the ‘tipping’ point is reached?

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