**Question 1**

1. Define the term ‘fossil fuel’ (2 marks)  
     
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2. Name three fossil fuels and the organisms that they are made from (6 marks)

One: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ made from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ made from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Three: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ made from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose one of these fossil fuels and describe the process of fossil fuel formation. (4 marks)  
   - you may use diagrams to support your description.  
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**Question 2**

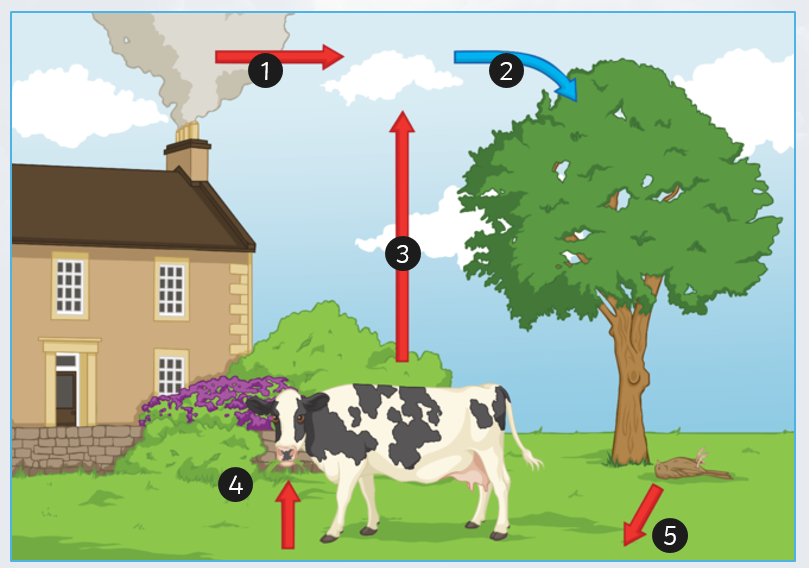
1. What is it about fossil fuels that makes them difficult to ‘sustainably’ use as a source of energy? (2 marks)  
     
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2. **List** two negative effects on the environment from the use of fossil fuels. (2 marks)  
     
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3. **Describe** one way in which the unsustainable use of fossil fuels has affected the environment. (2 marks)

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**Question 3**

The image below depicts the Carbon cycle and the major processes that exchange carbon through the four Earth spheres. Identify the 5 processes and fill them in the table. (5 marks)

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



The Enhanced greenhouse effect has been identified as a global problem with far-reaching impacts.

1. Define the enhanced greenhouse effect. (1 mark)

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1. List 2 examples of how the enhanced greenhouse effect can be reduced. (2 marks)

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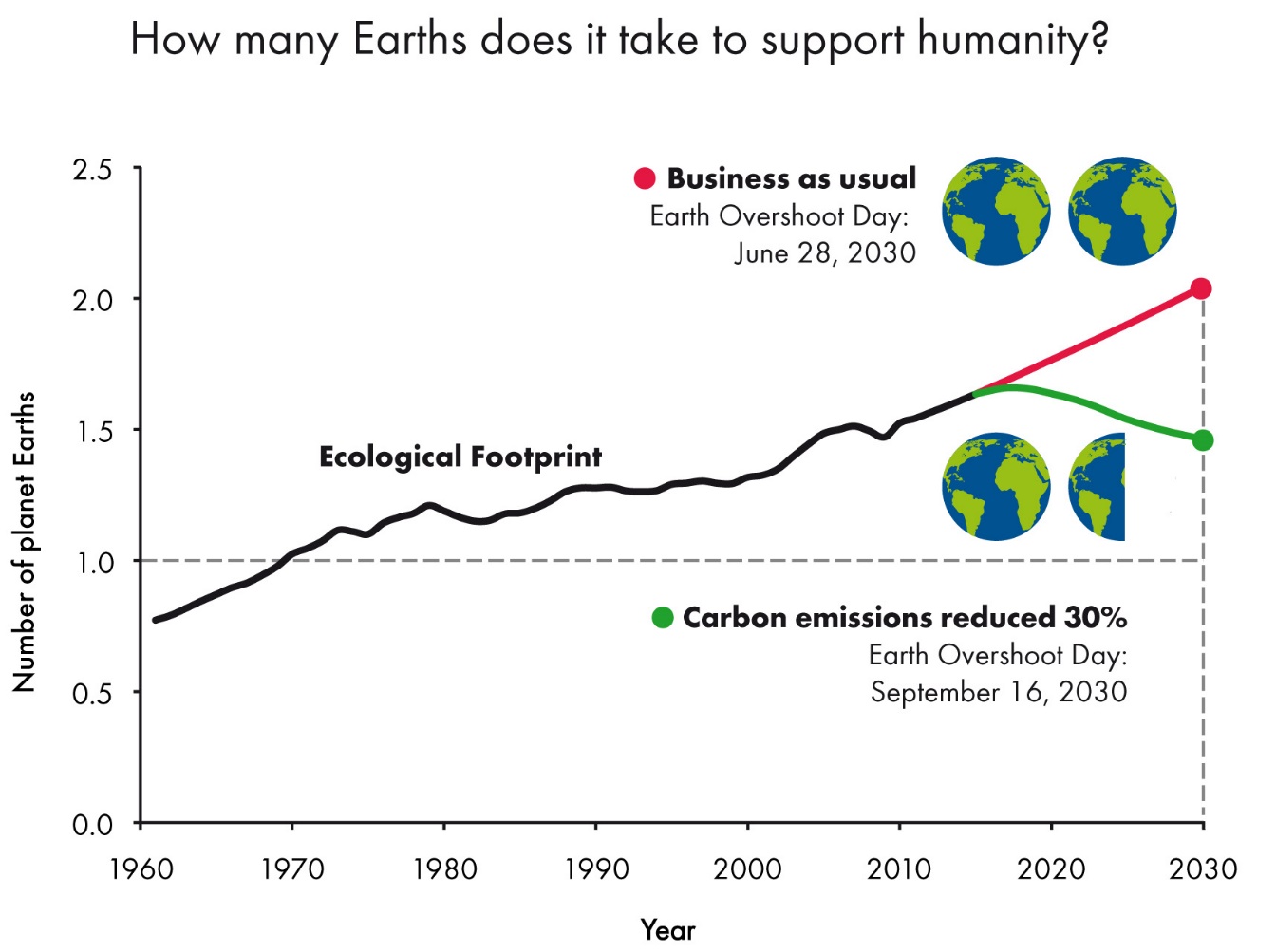
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ii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Question 4**

The figure below depicts the current estimates for our global ecological footprint, and two possible pathways moving into the future.



In your own words, and with the help of the graph, discuss the following: (5 marks)

i) What is meant by the term ‘ecological footprint’?

ii) How you would suggest, to people and/or industries, to best reduce our global ecological footprint?  
iii) Why it is important to do so?  
  
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