

**SNC2D Climate Change Unit Test
(35 Marks Total)**

Mark: /35

Name: _____

Signature: _____

Knowledge	/11
Inquiry	/7
Communication	/11
Application	/6

Sections 1 & 2: Multiple Choice/True or False

Question	1	2	3	4	5	6	7	8	9	10	11
Answer											

****NOTE: FOR SECTIONS 1 & 2 WRITE YOUR ANSWERS IN THE TABLES ON THIS FIRST PAGE OF THIS TEST****

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Section 1: Multiple Choice: (6 marks) - Knowledge

1. CO₂ is considered a greenhouse gas because:
 - a) it is produced in greenhouses
 - b) it traps radiation from the Earth's surface
 - c) it is stored as fossil fuels
 - d) when burned it produces a green flame
2. Earth's climate is powered by:
 - a) the sun
 - b) the moon
 - c) the ocean
 - d) the mountains
3. Which of the following might be a result of global warming:
 - a) falling temperatures
 - b) falling sea levels
 - c) less severe weather
 - d) rising sea levels
4. Short term changes in the Earth's climate can be influenced by:
 - a) volcanic eruptions
 - b) changes in air currents
 - c) changes in ocean currents
 - d) all of the above
5. What is the most abundant greenhouse gas in the Earth's atmosphere?
 - a) ozone
 - b) nitrogen
 - c) methane
 - d) carbon dioxide
6. Which of the following produces the most greenhouse gas emissions:
 - a) solar power
 - b) coal power
 - c) wind power
 - d) tidal power

True or False (5 marks) – Knowledge

- Humans are responsible for the production of all greenhouse gases
 - True
 - False
- Eating locally produced food is a way to reduce one's carbon footprint
 - True
 - False
- Water moves from the surface of the ocean to the bottom and back to the surface by the process known as evaporation
 - True
 - False
- The amount of energy the Earth absorbs is equal to the amount of energy the Earth radiates
 - True
 - False
- Burning fossil fuels releases gases into the atmosphere that affect Earth's climate
 - True
 - False

Section 3: Fill in the Blank (4 marks – Application)

Fill in the blank using words from the word bank below (4 marks)

-fossil fuels	-water vapour	-albedo	-heat sink
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12. _____ is the proportion of the sun's radiation that is reflected by a surface.
13. A reservoir, such as the ocean is considered a _____ due to its ability to store thermal energy.
14. Animal digestion produces _____, a greenhouse gas that is 23 times more effective as a greenhouse gas than CO₂.
15. Coal, oil and natural gas are all examples of _____

SECTION 4: Short Answer

16. Explain in words or using a diagram how the use of cars could be responsible for rising global temperatures. (4 marks - Comm)
17. List one example each of a natural occurrence and a human activity that affect the Earth's climate (2 marks - Application)

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18. Describe one piece of evidence that give us information about past climates? (3 marks- comm)

19. In your own words explain why changes in weather are not a good argument for or against climate change use examples to help make your argument: (4 marks- comm)

SECTION 5: Inquiry

20. Consider the following statement “Climate change is a global problem, therefore one person’s actions are unimportant” State whether you agree or disagree with the statement and explain your answer: (4 marks)

21. Describe how climate change would have a negative effect on an ecozone found in Canada or elsewhere in the world (3 marks)