



Assessment Task Notification

All students are asked to sign the teacher's copy to verify this notification has been distributed at least two weeks before the task date.

Course:	Year 12 Chemistry
Task Number:	3
Due Date of Task:	Friday, 10 th June 2016 (Week 7 – B) Task to be submitted at the beginning of Period 3
Task Value:	25%
Nature of Task:	Research Task
Other Information:	Students will be required to complete a research task (see attached document for details), to be submitted at the beginning of the lesson (Period 3)
Outcomes Assessed:	H2, H4, H5, H6, H8, H13, H14

Year 12 Chemistry – Research Assessment Task

Task 3

Weighting: 25%

Outcomes Assessed: H2, H4, H5, H6, H8, H13, H14

Due: Friday 10th June, 2016 at the start of Period 3

Task Details:

- All questions listed below relate to syllabus dot points from Part 4 of the topic 'Chemical Monitoring and Management'
- Research information to answer each of the questions listed
- Use the marking scheme provided for each question to ensure that all relevant information has been provided

- **Presentation of answers:**
 - Word processed using font at least size 11, 1 ½ spaced
 - Cover sheet attached to the front of your assessment task
 - Start a new page for each question, clearly marked with the question number being answered
 - Student number on each page submitted
 - Attach the question and marking scheme sheet to the front of each answer by stapling them together in the top left hand corner
 - Bibliography included for all questions and presented at the end of each answer. Provide as much information on the source as possible eg website address, date of access etc.

Year 12 Chemistry – Research Assessment Task Cover Sheet**Task 3****Weighting:** 25%**Outcomes Assessed:** H2, H4, H5, H6, H8, H13, H14

Question	Mark Allocated	Mark
1	25	
2	30	
Presentation	5	
Total Marks:	60	
Comment:		

Question 1 relates to the following syllabus dot points:

4.11 analyse the information available that indicates changes in atmospheric ozone concentrations, describe the changes observed and explain how this information was obtained.

Question 1

The data provided (on separate sheet) shows changes in atmospheric ozone concentrations over the past several decades.

- a) For each of the data sources (Data Source 1 and Data Source 2), describe the changes that have been observed.
- b) Using research, explain the method/s that may have been used to obtain this data.

Marking Scheme:

	Marks allocated	Mark
Describes the changes observed in atmospheric ozone concentrations in Data Source 1	5	
Describes the changes observed in atmospheric ozone concentrations in Data Source 2	5	
Explains two (2) methods used to obtain data on atmospheric ozone concentrations	10 (5 marks for each method explained)	
Reference/s listed (At least 3 sources)	5	
Total Marks	25	
Comment:		

Question 2 relates to the following syllabus dot point:

4.10 discuss the problems associated with the use of CFCs and assess the effectiveness of steps taken to alleviate these problems

Question 2:

'The Montreal Protocol is widely considered as the most successful environment protection agreement.' (Australian Government, Department of the Environment website www.environment.gov.au 'Montreal Protocol on Substances that Deplete the Ozone Layer')

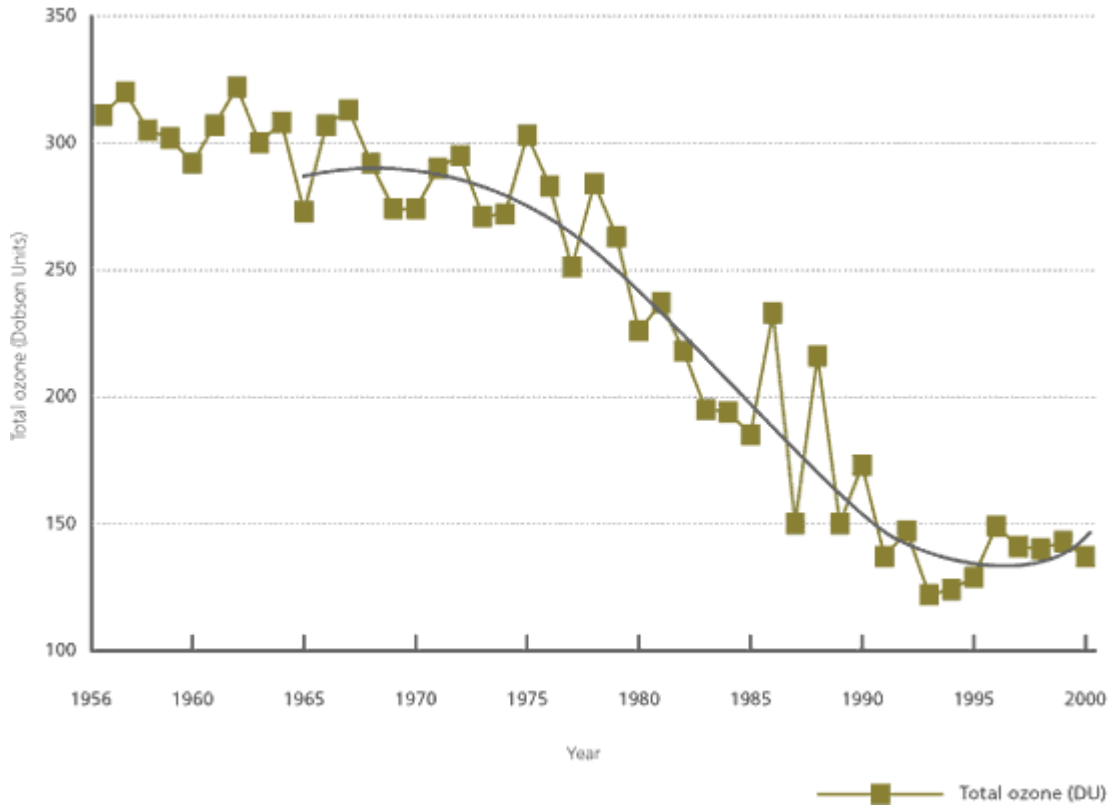
Evaluate the effectiveness of the Montreal Protocol in protecting the ozone layer. Use valid and relevant data to support your evaluation.

Marking Scheme:

	Marks allocated	Mark
Demonstrates an understanding of why the Montreal Protocol was designed, including chemical equations where appropriate	7	
Demonstrates an understanding of the Montreal Protocol agreement	5	
Provides analysed data to support or refute the effectiveness of the Montreal Protocol	10	
Evaluates (makes a judgement on) the effectiveness of the Montreal Protocol based on the data provided	5	
Reference/s listed (at least 3 sources)	3	
Total Marks	30	
Comment:		

Data Source 1

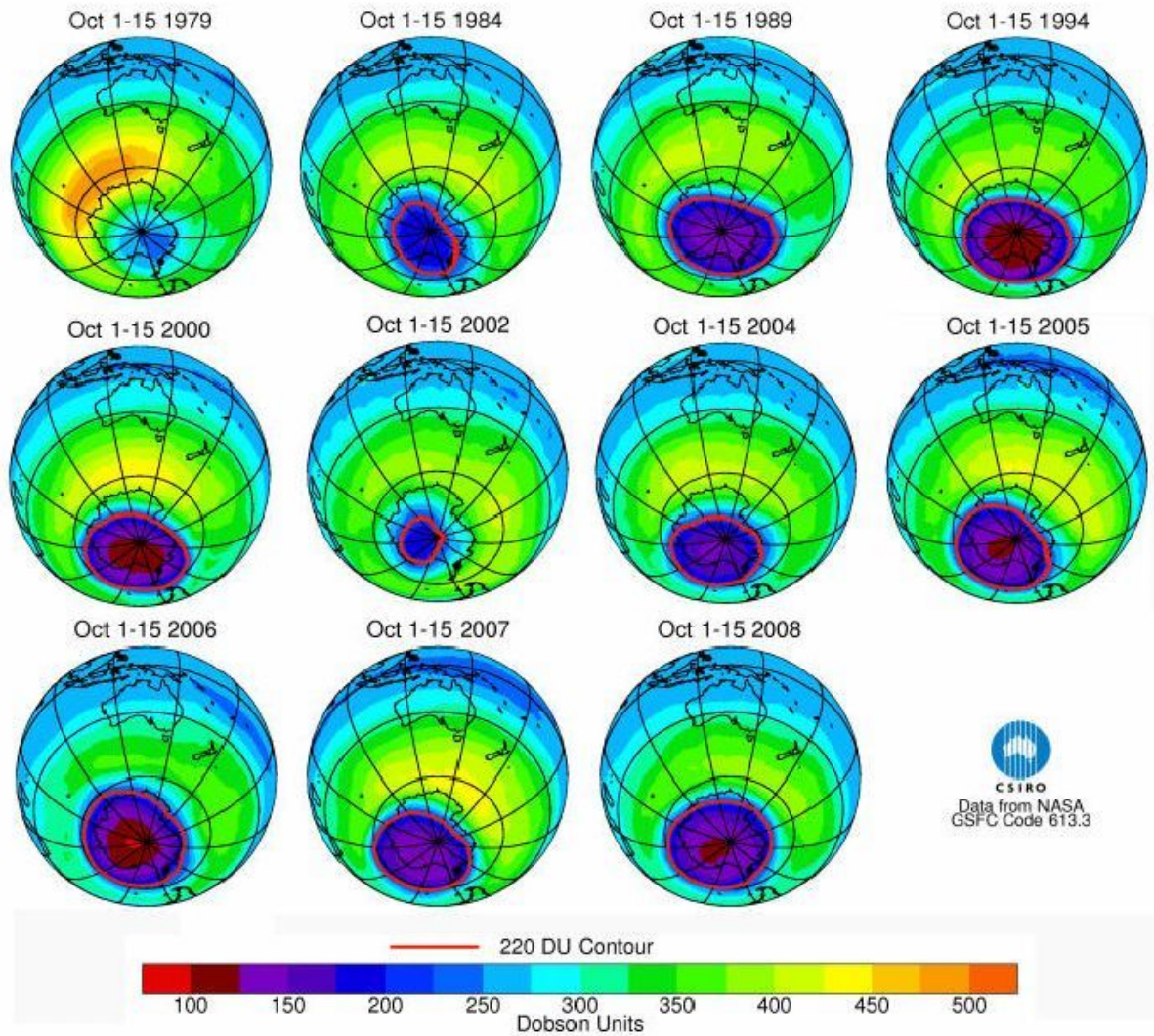
Figure 3.1: October ozone levels over Antarctica since the late 1950s



Graph sourced from: www.epa.nsw.gov.au

Data Source 2

Changes in the ozone hole (region with <220 DU) over the Antarctic from 1979 to 2008



Data sourced from <http://soer.justice.tas.gov.au/2009/index.php>

Student Number:.....

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