CGL23I – Sustainable Living - Water

Name: _____

Access to clean water is a basic requirement of life, and yet many people across the world lack that access.

TASK:

1. **Using Excel or a similar program, graph the percentage of the population that has access to clean water in various countries in 1980 and 2000.**
2. **Respond to a statement about the changes apparent between 1980 and 2000.**
3. **Create two chloropleth maps to show the differences between access to clean water between 1980 (Map 1) and 2000 (Map 2). Your map should clearly show the different levels of access by using an appropriate colour scale.**

Due dates: Task 1 to be completed in class Friday 4 March.

Tasks 2 & 3 to be completed in class time beginning Monday 7 March and for homework. **All tasks due Thursday 10 March or before.**

Helpful hints:

Task 1: You will need to calculate the statistics for the graph(s), and decide what sort of graph will accurately show the information in the best way. Please make the calculations yourself!

Task 2: Write approx. 100 words in response to this statement: **"Access to clean water is a critical issue for sustainable development".** Refer to statistics to support your argument.

Task 3: Maps should use all usual mapping basics (e.g. title, legend, northpoint etc) and the colour scheme used should group nations by their results. It is up to you to find each nation, and to determine what colour scheme and categories should be used.

This task is worth approx. 5.5% of the course.

	Component	Level 4	Level 3	Level 2	Level 1	Level 0
Part 1: Graph	Graphing skills /5	Graph shows information clearly. 5 4.5 4	Information is mostly clearly presented 3.5 3	Information is somewhat clear 2.5 2	Information is unclear or missing 1.5 1	Information is incorrect and/or missing 0.5 0
	Graph design /5	Design of graph complements information well 5 4.5 4	Design of graph mostly complements information 3.5 3	Design of graph presents required information 2.5 2	Design of graph does not suit information well 1.5 1	Design of graph conflicts with information 0.5 0
Part 2: Response	Clarity of response /5	Responds to statement well and includes statistics. Argument is clear and well-maintained. Minimal spelling/grammar errors 5 4.5 4	Statistics included and argument mostly clear. Some errors. 3.5 3	Some use of statistics, statement broadly responded to. Errors intrude. 2.5 2	Statistics misused or argument unclear. Many errors in writing. 1.5 1	No statistics and/or clear response. Errors make writing hard to understand. 0.5 0
Part 3: Maps	Mapping skills /15	Maps contains all required map features, are neatly coloured and presented. 15 14 13	Maps mostly contain all required features, are neatly presented. 12 11 10	Maps are missing some features, are untidy 9 8 7	Maps are untidy, or missing many map features. 6 5 4	Maps are incomplete, untidy, uncoloured 3 2 1 0
	Map information /10	Information is presented clearly: logical and neat use of colours and legend, accurate. 10 9 8	Information is mostly clear, good use of colours, mostly accurate. 7 6	Information is somewhat clear and accurately presented. Some errors. 5 4	Information is unclear, inaccurate and/or missing. 3 2	Information is unclear, inaccurate and missing. Map is mostly unreadable. 1 0
TOTAL						**/40**