**7 SCIENCE ASSIGNMENT**

**Drinking Water in Perth Western Australia**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_



What is the big problem?

Perth has a rapidly growing population.

Perth has long dry summers, where not much rain falls.

The rainfall Perth receives has been reducing over the last few years.

These things have led to Perth needing more and more sources of drinking water.

Science and technology have contributed to finding solutions to this problem.

Your task is to make up a poster or brochure. The poster will be on the topic of getting drinking water for Perth.

**Library notes**

Before you start the poster or brochure you will be going to the library to gather the information that you will need to make your poster or brochure. You will need to hand in your **hand written** notes with you poster and they will be marked and the mark added to the overall assessment marks.

Your library notes must include the following.

Simple notes on 5 sources of water available in Perth Western Australia.

A bibliography written correctly as per the information in the homework diary.

The notes must come from at least 3 different sources(for example internet, encyclopaedia, newspaper and/or book).

**Poster or brochure**

What your poster MUST HAVE:

1. A bright, attention grabbing and relevant heading.

2. A list of the present sources of drinking water in Perth and some of the sources that people have suggested for the future.

For each source give a brief explanation. Also give at least one benefit of the source, and one possible problem.

What you can choose to add to your poster to increase its "wow" factor:

Some relevant pictures drawn by yourself or cut from magazines. These things designed to increase the “wow” factor are not essential, but they might make your poster better at grabbing peoples’ attention.

Marking

|  |  |  |  |
| --- | --- | --- | --- |
| Library work | Aspect | Possible marks | Your mark |
| Notes on 5 possible sources of drinking water for Perth Western Australia | 5 |  |
| Notes concise. No extra information not needed to answer the question | 1 |  |
| 3 different reference types listed | 3 |  |
| Bibliography correct | 3 |  |
| Poster | Heading | 1 |  |
| List of sources with explanations of possible benefits and problems for each method. | 15 |  |
| Effort made to make the poster attract attention and convey information | 2 |  |
|  | Writing legible | 2 |  |
| Total |  | 32 |  |

Teacher marking key

|  |  |  |  |
| --- | --- | --- | --- |
| Library work | Aspect | Possible marks | Student mark |
| Notes on 5 possible sources of drinking water.  Any 5 of the following:  rain water in reservoirs,  rain water from people’s houses,  Ground water,  Desalination ,  Recycled waste water,  Pipeline from North. | 5 |  |
| Notes concise. No extra information not needed to answer the question | 1 |  |
| 3 different reference types listed.  Any 3 of the following:  Internet, encyclopaedia, newspaper, reference books. | 3 |  |
| Bibliography correct | 3 |  |
| Poster | Heading | 1 |  |
| List of sources with explanations of possible benefits and problems for each method. | Any 15 points from the table below |  |
| Effort made to make the poster attract attention and convey information | 2 |  |
|  | Writing legible | 2 |  |
| Total |  | 32 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| source of water | explanation | positive | negative |
| rain water in reservoirs | 1 | 1 | 1 |
| rain water in people’s houses | 1 | 1 | 1 |
| ground water | 1 | 1 | 1 |
| desalination | 1 | 1 | 1 |
| recycled sewage | 1 | 1 | 1 |
| Pipeline | 1 | 1 | 1 |