

## Grade 7 Natural Science Worksheet

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### Assessment Task: Earth Sciences: water resources

#### Water as a resource

#### Part One: Your water usage

You and a partner need to work together. Some of your answers will be arrived at independently, but others require you to share your ideas with your partner.

1. How many different people have made it possible that you have water at school today?
2. What activities, since you woke up, have required water?
3. What activities will you still do today that require water?
4. Compare your answer with your partner and discuss those activities that differed.
5. Are there any of these activities that you could do without the use of water?
6. Are there any of these activities that you could do with LESS water?
7. Could you, as an individual, use only two litres of water at school today for drinking, washing and the toilet?
8. Could you share your two litres with your partner?
9. Can you negotiate how and when to share the two litres of water?
10. Now write a report on your water usage.

[20 marks]

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### Rubric to assess report

Criteria	4	3	2	1
<b>Group work</b>	Excellent co-operation and discipline.	Good co-operation and discipline.	Fair co-operation and discipline.	Poor co-operation and discipline.
<b>Description of ideas</b>	Logical, related ideas described meaningfully.	Mostly logical & meaningful description.	Some errors, in description, not always logical & meaningful.	Many errors in logic & meaning.
<b>Questions and thought processes</b>	Learners have answered questions after much thought and consideration.	Learners have answered questions after some thought and consideration.	Learners have answered questions after little thought and consideration.	Learners have answered questions without thought and consideration.
<b>Attention to understanding of water usage</b>	Learners able to apply the concept to this exercise completely.	Learners able to apply the concept to this exercise fairly well.	Learners able to apply the concept to this exercise in a limited fashion.	Learners unable to apply the concept to this exercise.
<b>Neatness of overall presentation</b>	Excellent.	Good.	Fair.	Untidy.

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### Part Two: A research assignment

This is a research assignment. Find out information relating to:

1. the river water resources in South Africa;
2. how water is used in the municipal, industrial and agricultural sectors;
3. water pollution.

Present your findings in a pamphlet which educates young people about water resources in South Africa.

[25 marks]

### Rubric to assess a pamphlet

Criteria	4	3	2	1
Information relating to river water resources in South Africa.				
Information relating to water usage in the municipal, industrial and agricultural sectors.				
Information relating to water pollution.				
Learner has an overall understanding of water resources and how water is used, as well as how it is polluted; ideas are integrated				
Research shows interest and involvement in work				
Design of pamphlet; layout and professional presentation; neatness and attractiveness.				
<b>Total</b> Plus 1 bonus mark if handed in on time!	<b>/25</b>			

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### Suggested Solutions

Question number	Possible marks	Solution
1	20	See rubric in Appendix of Assessment Tools.
2	25	See rubric in Appendix of Assessment Tools.

### Appendix of Assessment Tools

#### Rubric to assess report

Criteria	4	3	2	1
<b>Group work</b>	Excellent co-operation and discipline.	Good co-operation and discipline.	Fair co-operation and discipline.	Poor co-operation and discipline.
<b>Description of ideas</b>	Logical, related ideas described meaningfully.	Mostly logical & meaningful description.	Some errors, in description, not always logical & meaningful.	Many errors in logic & meaning.
<b>Questions and thought processes</b>	Learners have answered questions after much thought and consideration.	Learners have answered questions after some thought and consideration.	Learners have answered questions after little thought and consideration.	Learners have answered questions without thought and consideration.
<b>Attention to understanding of water usage</b>	Learners able to apply the concept to this exercise completely.	Learners able to apply the concept to this exercise fairly well.	Learners able to apply the concept to this exercise in a limited fashion.	Learners unable to apply the concept to this exercise.
<b>Neatness of overall presentation</b>	Excellent.	Good.	Fair.	Untidy.

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### Rubric to assess a pamphlet

Criteria	4	3	2	1
Information relating to river water resources in South Africa.				
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Design of pamphlet; layout and professional presentation; neatness and attractiveness.				
<b>Total</b> /25 Plus 1 bonus mark if handed in on time!				