/20

**watershed model project: question sheet Name:\_\_\_\_\_\_\_\_\_\_\_**



There are Pre-Activity and Post-Activity questions to do here. **EACH** member of the group will be completing this package and submitting it individually.

**Part A: Pre–Activity Questions:** Before you begin construction of your watershed model, answer the following questions.

1. Watersheds are also called ‘drainage basins’ – why do you think this is so? (1 mark)

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1. We use models to represent different phenomena in science. Describe another example of a model that you may have seen before in science. (2 marks)

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1. Name the three main watersheds in the Metro Vancouver area.(1.5 marks – ½ mark each)

a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Where does West Vancouver get the majority of water from? (1 mark)

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1. What are some ways you can think of in which humans can negatively impact watersheds. (1.5 marks marks – ½ mark each)

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1. What functions do wetlands play in an ecosystem? (2 marks)

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**Part B: Post-Activity Questions:**

1. Explain in paragraph form how people, buildings such as factories and agricultural areas and can impact watersheds ( /3)

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1. Where might a good place for a farm or other agricultural area be? Why? (2 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Is there any other type of pollutant you can think of that may impact a watershed and is not represented on your model? Explain how this pollutant could have an impact – be specific! (2 marks)

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1. In our model, natural remediation was performed by the wetlands (sponges) as some pollutants were removed from the run-off. What else might be done to help with remediation of pollutants (natural or human designed remediation)? ( 2 marks)

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**Critical Thinking**

1. Explain how your model may have inaccuracies. What other ways could you alter your model to make it more accurately represent a watershed? ( 2 marks)

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