Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**⇨** Start at: [World of Water](https://www.melbournewater.com.au/world-of-water)

**⇨** Step 1: Click on **Water cycle**, then find **Urban water cycle – Desalination**

1. What is desalination? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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2. Why was the desalination plant built? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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3. Why is desalinated water important during times of drought?
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4. What is the capacity of the desalination plant?
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5. How is the desalination plant powered?
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6. Watch the video **Integrating the Victorian Desalination Project**and draw a flow map showing where desalinated water can be used.

**Desalinated water flow map**

**⇨** Step 2: Click on **Desalination data**

1. What is the current desalination contribution to Melbourne’s water supply?
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2. Suggest reasons why there has/ hasn’t been a contribution.
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**⇨** Step 3: Extension

Look at the following graph and answer these questions

1. Describe what Melbourne’s water supply would be like without desalinated water contributions.
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2. Explain why the advice is to turn the desalination plant on earlier rather than later.
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Comparisons of Melbourne’s total system storage levels over the last five years with and without annual desalinated water contributions

Source: Greater Melbourne Urban Water and System Strategy: Water for Life <https://www.melbournewater.com.au/media/23686/download>