**Water Treatment**

**Treating Drinking Water – Student Activity**

People need clean drinking water to be healthy. In Ontario, all drinking water is usually safe to drink because it is tested regularly. We rely on our municipal government to treat fresh water at a water treatment plant and to pump it through pipes to our homes, schools and businesses. Read the poster, *“****How is lake water turned into drinking water?***” and answer these questions.

1. What part of your water filter was the screening system?

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2. Explain what was removed from your dirty water during screening.

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3. Explain how the alum works to form floc at a city water treatment plant.

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4. What step of your water filter was like the settling basin?

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5. What was removed from your dirty water during settling?

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6. What part of your water filter was the filtration step?

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7. What was removed from your dirty water by the gravel?

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8. List four things removed from lake water by the sand at a city water treatment plant.

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9. What does the activated carbon do in the city water treatment plant?

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10. What part of your water filter was the storage tank?

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11. Why was chlorine added here?

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12. Why is fluoride added to drinking water?

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 13. What required step was missing from your water filter to make the water safe to drink?

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14. How could you change your water filter to increase the rate of flow of clean water?

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Read the poster, “***Protecting Our Water****”,* and answer the following questions.

1. What three things are saved if you take shorter showers?

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2. If all the water leaking from a dripping faucet is collected for a year, what will it fill?

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3. What are three ways you can conserve water at home?

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4. Explain the importance of making sinks a pollution free zone.

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5. If people pollute water with substances that **cannot** be removed during drinking water treatment, what will happen in the future?

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Look at the poster, “***We are connected to water****”.* Choose one way you feel connected to water and **draw** a graphic and **label** that could be added to this poster.

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