

# Wastewater Treatment Plant Tour



## 5<sup>th</sup>-12<sup>th</sup> Grade Water Discovery Field Trip Program

### Objective

To introduce students to the wastewater treatment process and the production and benefits of recycled water.

### Overview

Students will tour a Wastewater Treatment Plant, learn the seven-stage treatment process and develop an understanding of wastewater flows and where it comes from. Students will develop an understanding of the importance of being aware of what should, and shouldn't be, "flushed" down the drain, and learn the essential process that helps preserve potable water for the region's future.

### Length of Time

45 minutes

### Next Generation Science Standards\* Connections

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|-----------------------------|---|
| <b>5<sup>th</sup> Grade</b> | 5-PS1 Matter and Its Interactions<br>5-LS2 Ecosystems: Interactions, Energy, and Dynamics<br>5-LS3 From Molecules to Organisms: Structures and Processes<br>5-ESS3 Earth and Human Activity |
| <b>Middle School</b>        | MS-PS1 Matter and Its Interactions<br>MS-LS1 From Molecules to Organisms: Structures and Processes<br>MS-ESS3 Earth and Human Activity<br>MS-ETS1 Engineering Design                        |
| <b>High School</b>          | HS-LS2 Ecosystems: Interactions, Energy, and Dynamics<br>HS-LS4 Biological Evolution: Unity and Diversity<br>HS-ESS3 Earth and Human Activity<br>HS-ETS1 Engineering Design                 |



### Common Core State Standards Connections

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| <b>5<sup>th</sup> Grade</b> | <i>ELA/Literacy</i> RI.5.1, RI.5.7, RI.5.9, W.5.1, W.5.7, W.5.8, W.5.9, SL.5.5<br><i>Mathematics</i> MP.2, MP.4, MP.5, 5.NBT.A.1, 5.NF.B.7, 5.MD.A.1, 5.MD.C.3, 5.MD.C.4  |
| <b>Middle School</b>        | <i>ELA/Literacy</i> RST.6-8.1, RST.6-8.2, RST.6-8.3, RST.6-8.7, RI.6.8, WHST.6-8.1, WHST.6-8.2, WHST.6-8.7, WHST.6-8.8, WHST.6-8.9, SL.8.5<br><i>Mathematics</i> MP.2, MP.4, 6.RP.A.1, 7.RP.A.2, 6.EE.B.6, 7.EE.B.4, 6.RP.A.3, 6.NS.C.5, 8.EE.A.3, 6.SP.B.4, 6.SP.B.5, 6.EE.C.9, 6.SP.A.2 |
| <b>High School</b>          | <i>ELA/Literacy</i> RST.9-10.8, RST.11-12.1, RST.11-12.2, RST.11-12.7, RST.11-12.8, RST.11-12.9, WHST.9-12.2, WHST.9-12.5, WHST.9-12.7, WHST.9-12.9, SL.11-12.4<br><i>Mathematics</i> MP.2, MP.4, HSN-Q.A.1, HSN-Q.A.2, HSN-Q.A.3, HSS-ID.A.1, HSS-IC.A.1, HSS-IC.B.6                     |

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