

Infrastructure and Utilities

Writing Ideas

1. After watching the video, summarize three key ideas that you learned. (3-12)
2. After watching the video, did you learn things that didn't fit with what you thought about infrastructures or how what you already knew reinforced? Do you have new insights? Write two paragraphs to answer these questions. (5-12)
3. Make a flowchart about how waste water is cleaned. Write a short paragraph to describe each step. (5-12)
4. Describe how bacteria is a good thing in cleaning waste water. (6-8)
5. Describe how cameras are helping to take care of sewer pipes. (3-6)
6. Research the history of sewers; when they were invented and what they have been used for over the years since 2500 B.C.
7. Describe five different pieces of equipment that are used to maintain the underground sewer system. (3-8)
8. Describe the jobs of a city engineer, head of a street department, and a civil engineer. (3-8)
9. Describe the environmental precautions that workers take to ensure that waste water is cleaned effectively. (6-12)
10. Describe why underground maps of cities are important. (6-8)
11. Research traffic signals and describe how a city installs and maintains them. (6-12)
12. Define infrastructure and research the electrical connections, internet lines, cable lines, sewer system, traffic signals, and water lines that run below a city.
13. Research the training that fire fighters must go through and discuss why each part of training is important. (3-5)
14. Describe how thermal imaging technology is assisting firefighters. (6-8)
15. A firefighter says he/she has to be trained in not only fighting fires but also emergency treatments, hazardous materials, and public relations. Describe these duties. (6-12)
16. Pick four pieces of equipment that fire fighters use and describe why each is important. (3-12)