

Pipe Project: Plumbing

Junior Level

Specifications	Study Club Value
Construct a water supply pipeline using the pipes and fittings to connect six houses. Each house must be connected to the "Water Reservoir" house.	\$.02
Use the Pipe Parts worksheet to determine the cost of the pipes and fittings for your water supply pipeline.	\$.03

Intermediate Level

Specification	Study Club Value
Construct a water supply pipeline and a sewer pipeline using the pipes and fittings to connect 6 houses according to the following specifications: - All houses must have their water supply pipeline connected to the "Water Reservoir" house. - All houses must have their sewer pipeline connected to the "Water Treatment Plant" house. - The water supply pipeline and the sewer pipeline must be kept separate. - The "Water Reservoir" house must be at least 2 feet from the nearest house. - The "Water Treatment Plant" must be at least 2 feet from the nearest house.	\$.04
Use the Pipe Parts worksheet to determine the cost of the pipes and fittings for your water supply pipeline and sewer pipeline.	\$.06

Senior Level

Specification	Study Club Value
Draw a plan for a water supply pipeline and a sewer pipeline that uses no more than \$25.00 worth of pipes and fittings to connect as many houses as you can according to the following specifications: All houses must have their water supply pipeline	\$.10

connected to the "Water Reservoir" house. • All houses must have their sewer pipeline connected to the "Water Treatment Plant" house. • The water supply pipeline and the sewer pipeline must be kept separate. • The "Water Reservoir" house must be at least 2 feet from the nearest house. • The "Water Treatment Plant" must be at least 2 feet from the nearest house.	
Use the Pipe Parts worksheet to determine the cost of the pipes and fittings for your water supply pipeline and sewer pipeline.	\$.05
Construct the water supply pipeline and sewer pipeline according to your plan.	\$.05 plus a bonus of \$.01 for each house that you are able to connect according to the specifications.