Roman Team Building Activity – Moving Water!

Ancient Rome is remembered for its incredible architectural and engineering feats. The Ancient Romans build aqueducts to carry fresh water from mountain lakes into their cities. To accomplish this task, the water had to pass through channels many miles long. These channels wove in and out of the hills and up and down mountains carrying water.

How did engineers make the water flow uphill??

Materials: Pitcher of water, Two Buckets, Long, flexible plastic or rubber tube (over 1 meter long)

Procedure: Students need to be in Groups of 4.

Step 1:

Person 1: Stand up and hold one end of the tube at eye level.
Person 2: Remain sitting and hold the tube at table level. The tube needs to be in a ‘straight’ slant, not sagging
Person 3: Place buckets under both ends of the tube.
Person 4: Pour a small amount of water into the high end of the tube.

All Students Record on their recording sheet What Happened? Why?

Step 2:

Person 1 to 3: The same as step 1
Person 4: Try pouring the water at the low end of the tube.

All Students Record on their recording sheet What Happened? Why?

Step 3:

Person 1 and 2: Sit down at the table with the tube about 1 meter off the floor.
All Students: Use their spare hand to take hold of a section of tube. Have each hand on the tube alternate be either holding their section up or pushing it down. Both ends of the tube should be up. Person 1’s end should be higher than person 2’s. The tube should look like a roller coaster track!
Person 4: Pour water into the tube – try starting at both ends.

All Students Record on their recording sheet What Happened? Why?
### Building an Aqueduct - Recording Sheet

<table>
<thead>
<tr>
<th>Step #</th>
<th>What happened?</th>
<th>Why?</th>
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</thead>
<tbody>
<tr>
<td>Step 1</td>
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<td>Step 2</td>
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<td>Step 3</td>
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Explain how Ancient Roman engineers made water flow uphill. (Think about step #3 does the height of the water at the starting point affect the flow of water?)