Stream Volume / writing a lab report

Objective: Students will calculate velocity, area, and volume of water flowing in Bull Run Creek.

Bell Ringer:

A stream flows 3 meters in 7 seconds. Calculate the velocity.

V = D / T

3 / 7 = 0.43 m/s

Review what a cubic meter is. 1M by 1M by 1M

Students go to Huffnagle Park to complete Stream Volume of Flow lab.

NAOO website.

<http://water.weather.gov/ahps2/hydrograph.php?wfo=ctp&gage=lwbp1&view=1,1,1,1,1,1,1,0>

Lab Wrap-up

Discuss questions from lab.

Pass out “Writing a lab report”

Discuss lab report process.

Exit Bell Ringer-

A stream has a velocity of 2.7 m/s and is 100 m wide by 3 meters deep. Calculate the volume of water in cubic meters per second.

Volume = area x velocity

Area = width x depth

100 x 3 = 300 m squared

300 x 2.7 m/s = 810 cubic meters per second