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Engr 101 C

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Spreadsheet Lab#3

Concrete Compressive Strength Table and Graph

Table 1 - Strength, Force, and Water/Cement Ratio for Concrete Test Cylinders

Water/Cement Ratio	%Air	Compressive Force (lbs.)	Compressive Strength (psi)
0.42	3.0%	73,000	5,809
0.43	3.0%	76,500	6,088
0.43	3.0%	82,000	6,525
0.45	2.2%	67,500	5,371
0.45	2.2%	72,000	5,730
0.45	2.8%	71,500	5,690
0.46	2.4%	75,000	5,968
0.46	2.3%	74,900	5,960
0.46	2.3%	72,500	5,769
0.48	3.2%	71,000	5,650
0.49	4.0%	68,500	5,451
0.50	2.8%	70,500	5,610
0.50	2.8%	71,500	5,690
0.51	2.8%	69,000	5,491
0.51	2.8%	62,500	4,974
0.52	2.8%	68,000	5,411
0.52	2.8%	65,500	5,212
0.52	2.1%	62,500	4,974
0.53	2.8%	67,000	5,332
0.54	2.4%	56,000	4,456
0.55	2.9%	68,000	5,411
0.55	2.9%	67,000	5,332
0.56	2.9%	69,000	5,491
0.57	3.0%	53,000	4,218
0.58	3.0%	45,000	3,581
0.58	3.0%	43,000	3,422
0.58	1.6%	51,500	4,098
0.59	1.6%	52,500	4,178

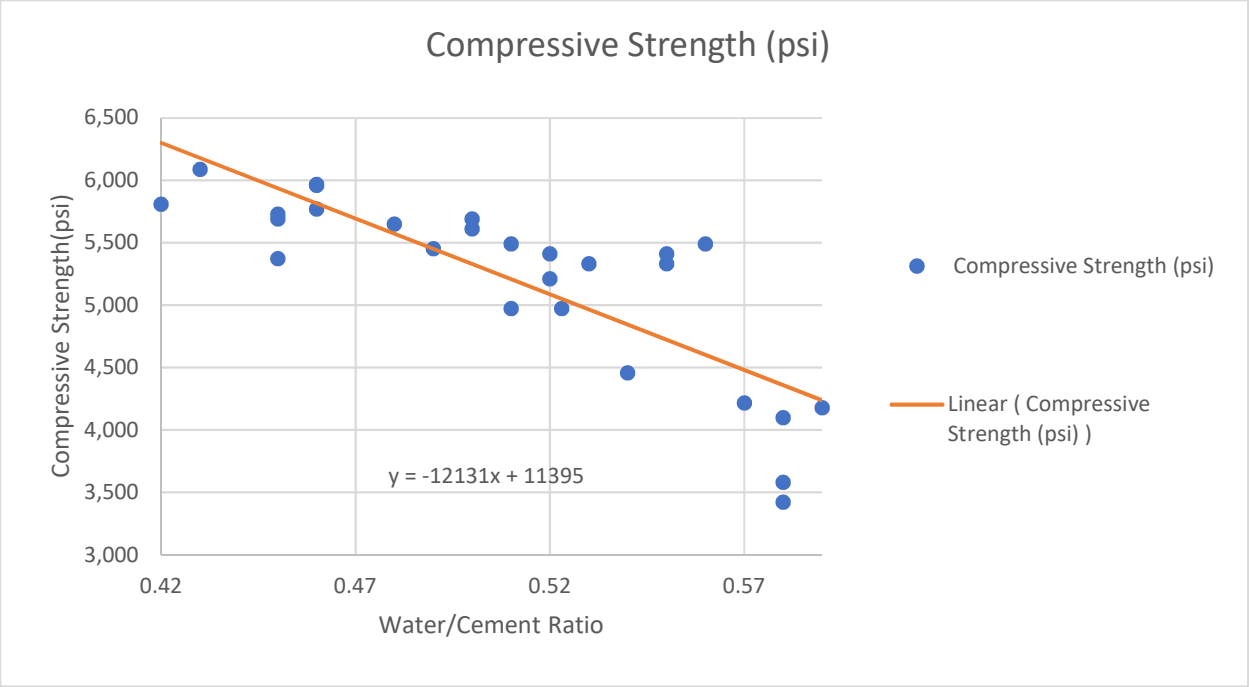

Figure 1- Graph Relating Compressive Strength of Test Cylinder to Water/Cement Ratio