



**Course Title:** Engineering 6

**Content Area:** Technology Education

**Grade Level:** 6

## Scope and Sequence

Unit or Topic	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Inteventions, Special Education)	Resources and Materials
Inch Measuring	M7.B M7.B.2	2 periods	Students will learn how to measure to the nearest 1/16".	Teacher created	students are allowed to complete the assignment over if they want to.	All content is teacher Created and posted in Blackboard.
West Point Bridge Designer	3.2.7.D 3.6.7.C	2 periods	Students will design and test a bridge on the computer.	Teacher created	Students may be given extra time for completion if necessary	All content is teacher Created and posted in Blackboard.
Final Bridge Design	3.2.7.D 3.6.7.C	2 periods	Students will use graph paper and a ruler to draw the bridge they want to build.	Teacher created	Students may be given extra time for completion if necessary	All content is teacher Created and posted in Blackboard.
Bridge Material Calculations	3.2.7.D 3.6.7.C 3.7.7.A M7.A.3.2.1 M7.A.3.2.2 M7.B M7.B.1.1 M7.B.2	2 periods	Students will measure the beams on their design, then add the lengths together to determine a total.	Teacher created	Students may be given extra time for completion if necessary	All content is teacher Created and posted in Blackboard.
Bridge	3.2.7.D	2	Students will track the	Teacher	Students may be given	All content is teacher



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Cost Spreadsheet	3.6.7.C 3.7.7.A M7.A.3.2.1 M.7.A.3.2.2 M7.B M7.B.1.1 M7.B.2	periods	cost of building their bridge using a check-book register.	created	extra time for completion if necessary	Created and posted in Blackboard.
Bridge Efficiency Calculations	3.2.7.D 3.6.7.C 3.7.7.A M7.A.3.2.1 M.7.A.3.2.2 M7.B M7.B.1.1 M7.B.2	2 periods	Students will determine an efficiency rating for their bridge (static load vs. dynamic load).	Teacher created	Students may be given extra time for completion if necessary	All content is teacher Created and posted in Blackboard.
Bridge Report	CC.1.4.6.A CC.1.4.6.B CC.1.4.6.C CC.1.4.6.D	2 periods	Students will complete a 4 paragraph report about the bridge unit.	Teacher created	Students may be given extra time for completion if necessary	All content is teacher Created and posted in Blackboard.