

Build a Standing Desk



*Designed and built by Billy Boudreau (St. Michael's HS), Graeme Lachance (Philemon Wright HS),
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Requirements

Knowledge: Measuring (imperial/metric), angles, budgeting, supply shopping, tool use

Material: Construction lumber; plywood

Tools: Drills; drill press; mitre saw; orbital sander; sanding disks; measuring tape; clamps;

Hardware: wood screws; lag bolts; eye bolts; wood glue; wood stain; topcoat;

WOTP Curriculum addressed: Math and Introduction to the World of Work

For more detailed instructions, more pictures and some videos please follow the link below.

If you have any questions about the project please feel free to contact any of us


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Standing Desk Google Drive
<https://tinyurl.com/StandingDeskWOTP>



Workshop Scenario	Standing Desk Construction
Teacher Introduction: (Overview / Purpose)	
<p>This workshop is designed to allow students to experience the construction of a wood product from a plan. This desk could be made to order and so the plans may need to be altered to satisfy the customer. Tasks may include: communicating the design with the customer, making changes to the plan and material list, buying the material, setting up the work station, building, and delivery. Students could advertise the desk and find customers. They could offer different designs and discuss with customers details about design and cost. Things to consider in this series of activities: customers should pre-order the desk and possibly give specifics for type of design (height, table top, etc.). Students could brainstorm slight changes to the design to offer and discuss and determine the specific types of clients for this product. Note that selling items in school needs to be passed through the Governing Board and the Principal. Also ensure that you have done specific safety lessons on each of the tools used and specific workshop safety. This workshop scenario provides an opportunity to address many different specific tasks and performance criteria.</p>	
Materials	
<ul style="list-style-type: none"> - Wood for construction (2x4, 2x8, 1x3, plywood) - Fasteners (screws, eye bolts/nuts, lag bolts) - Consumables (wood glue, stain/verathane, sand paper) - Power tools (Mitre saw, drill press, Portable drills, sander (orbital) - Carpentry tools (drill bits, driver bits, hex bit (lag bolts), measuring tape, clamps, rag/brush for stain) - Safety equipment (safety glasses, gloves for staining,) 	
Performance Criteria	Specific Competencies
<p><i>Health and Safety</i> - Observance of rules of hygiene and sanitation / occupational health and safety rules, Order and cleanliness.</p> <p><i>Following Procedures</i> - Compliance with work instructions, Proper application of work techniques and Proper use of equipment, Accurate interpretation of assembly plan and steps</p> <p><i>Customer Service</i> - Courteous service, Concern for customer satisfaction, Relevant, accurate and clear information provided, Attentive listening</p>	<ul style="list-style-type: none"> • <i>Clean and tidy up the work area</i> • <i>Maintain the equipment and work areas</i> • <i>Prepare the workstation</i> • <i>Prepare to cut solid wood or wood-based panels</i> • <i>Cut solid pieces of wood into sections</i> • <i>Receive payment from customers</i>
Procedure	
<p>Pre-production: Who would be potential customers for a standing desk? Determine pricing: look into costs of materials and available tools, work space, etc.,</p> <p>Production: Teach mini lessons about workshop safety and procedures for tools; maintain work area (neat working environment, clean as you go), handling the material, working with others in a workshop (safety and etiquette). Review the material list and plans Purchase all materials and begin assigning the tasks (cutting material, sanding, assembly, etc.) Build the desk</p> <p>Deliver the desk *Teacher acts as employer overseeing the operation*</p> <p>Post-Production – - Possible mini lessons (teamwork, communication, etc.) - Reflection questions for students WWI and EBI, - Notes for future projects:</p> <div data-bbox="852 1633 1534 2005" style="border: 2px solid black; padding: 10px; margin-top: 20px;"> <p>Link to IWW binder https://tinyurl.com/IWWBinder</p>  </div>	