

**Subject : Architectural Design**

**Facilitator : Robert Bersch**

**Grade Level: 10 - 12**

<b>TIMELINE</b>	<b>CONTENT</b>	<b>SKILLS</b>	<b>ASSESSMENT</b>	<b>NJCCCS</b>
<b>September</b>	<ol style="list-style-type: none"><li>1. Architectural Design</li><li>2. Orientation</li><li>3. Lettering</li><li>4. Scale Drawing</li><li>5. Primary considerations</li></ol>	<ul style="list-style-type: none"><li>• Use scale to measure/set-off distance</li><li>• Read pp 1-16 Chapter 1 complete questions</li><li>• Using architectural style letter</li><li>• Complete “shed” drawing</li><li>• Understand concepts of architecture, i.e. roof design, other</li></ul>	<ul style="list-style-type: none"><li>• Evaluate classroom assignment</li><li>• Quiz – using ruler</li><li>• Evaluate lettering on assignment</li><li>• Evaluate using scale f/practical drawing</li></ul>	3.1 4.9
<b>October</b>	<ol style="list-style-type: none"><li>6. Preliminary floor plan Lay-out</li><li>7. Floor plan (rancher)</li><li>8. Basement plan (foundation)</li></ol>	<ul style="list-style-type: none"><li>• Develop thumbnail sketches</li><li>• Develop complete floor plan</li><li>• Develop complete basement plan for #2</li></ul>	<ul style="list-style-type: none"><li>• Evaluate sketches as to efficient floor plan</li><li>• Evaluate floor/basement plan</li></ul>	4.9
<b>November</b>	<ol style="list-style-type: none"><li>9. Kitchen detail</li><li>10. Scale model – kitchen</li><li>11. Vocations</li></ol>	<ul style="list-style-type: none"><li>• Develop detail kitchen plan</li><li>• Construct using ¼” foam board ½” scale model of kitchen detail</li><li>• Explore various general occupations</li></ul>	<ul style="list-style-type: none"><li>• Evaluate kitchen plan for efficiency of design</li><li>• Research various occupations in areas of Architecture</li></ul>	4.9
<b>December</b>	<ol style="list-style-type: none"><li>12. Typical wall section</li><li>13. Foundation sections</li></ol>	<ul style="list-style-type: none"><li>• Develop wall section cut away with all components labeled</li><li>• Develop section details for garage, basement, and slab</li></ul>	<ul style="list-style-type: none"><li>• Evaluate section drawings</li></ul>	4.9
<b>January</b>	<ol style="list-style-type: none"><li>14. Heat-loss drawing</li><li>15. Electrical plan</li></ol>	<ul style="list-style-type: none"><li>• Calculate heat-loss for individual floor plan</li><li>• Calculate cost of heating same using various fuels</li><li>• Develop complete electrical plan</li></ul>	<ul style="list-style-type: none"><li>• Evaluate heat-loss for individual floor plans</li><li>• Evaluate placement of fixtures, switches, outlets</li></ul>	4.9

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<b>February</b>	16. Vocational exploration 17. Roof design	<ul style="list-style-type: none"><li>• Use Internet to research various occupation pertinent to area of study</li><li>• Develop various roof designs for individual projects</li></ul>	<ul style="list-style-type: none"><li>• Evaluate roof designs</li></ul>	3.5 1.4 1.3 3.1
<b>March</b>	18. Site planning	<ul style="list-style-type: none"><li>• Discuss surveying</li><li>• Develop plot plan</li></ul>	<ul style="list-style-type: none"><li>• Evaluate survey of various site plans</li></ul>	3.1 4.9
<b>April</b>	19. Elevation design	<ul style="list-style-type: none"><li>• Develop detailed elevation drawings, front/rear/sides</li></ul>	<ul style="list-style-type: none"><li>• Evaluate elevation designs</li></ul>	3.1 4.9
<b>May-June</b>	20. Scale model	<ul style="list-style-type: none"><li>• Construct scale model 1/4" of individual projects</li></ul>	<ul style="list-style-type: none"><li>• Evaluate scale model for accuracy, neatness, other</li></ul>	3.1 4.9 4.2