

Curriculum Map for: Electricity/Electronics

Prepared October 10, 2006 by Kris Kastberg

Prerequisites: None

Scope:

Assessment:

Assessment comes in a variety of forms and wherever possible should be used to reflect and enhance the teaching and learning process that occurs in a classroom. Assessment should not be seen as a separate activity, but as an integral part of the teaching and learning process. Alternative assessments apply to any and all assessments that differ from multiple choice, timed, one-shot approaches that characterize most standardized and classroom assessment. Authentic assessments are assessments that engage students in applying knowledge and skills in the same way they are used in the real-world. Performance assessment is a broad term, encompassing many of the characteristics of both authentic and alternative assessments.

As this course of study demonstrates, it is clear that no single type of assessment could provide an accurate measurement of the learning experience. Students should have the best opportunity to demonstrate their understanding of the learning experience. Therefore, it is suggested that a variety of data gathering methods be used such as objective tests, observations, products, written reports, performances and a collection of student works.

The **TIME** column offers a suggested time-line so that all topics listed in the **CONTENT/SKILLS** column are feasibly met. It is understood that times will need adjustments as the course develops. The **APPLICATION/PROJECT IDEAS** column offers suggestions and sources for the teacher. This column should be updated periodically to keep current and as new ideas are generated. The **KEY IDEA/PERFORMANCE INDICATOR** column coordinates topics with the NYS standards.

TIME	CONTENT/SKILLS	APPLICATIONS/PROJECT IDEAS	KEY IDEA/PERFORM INDICATOR
1 Week	Components of Being an Architect <ul style="list-style-type: none"> • Definition of an Architect • Architectural Drawings • Drawing Tools 	Build Portfolio Folder Demonstrate Hand drawing tools and Technique Measuring to Scale Worksheet	MST Standards 2 & 7
3 Weeks	Sketching <ul style="list-style-type: none"> • Basic technique • Drawing Convention 	Cabin Floor Plan Sketch	MST Standards 2 & 7
2 Weeks	Mechanical Drawing <ul style="list-style-type: none"> • Setup and Preparation • Lettering Convention • Architectural Symbols • Dimensioning 	Student Draws Floor Plan of Their Own Home	MST Standards 2, 3, 5, 6, 7
5 Weeks	Architectural Style and Design <ul style="list-style-type: none"> • Common Architectural Styles • Design Convention 	Research and Power Point Presentation on Architectural Styles Student Designed Floor Plan	MST Standards 1, 2, 5, 7
	Residential Construction Basics <ul style="list-style-type: none"> • Foundations • Framing • Roofing • Doors and Windows 	Student Designed Elevation Drawing	MST Standards 6 & 7
	CAD <ul style="list-style-type: none"> • Coordinate Entry • 2-D Rendering • 3-D Rendering 	Student Improves and Renders Their Floor Plan with CAD	MST Standards 2, 5, 7
	Modeling		MST Standard 7

