



SCHOOL DISTRICT OF MONROE

Preparing for the Future, One Child at a Time

Light Building Construction

Course Description:

The curriculum for this course is developed from the [Wisconsin Standards for Technology and Engineering](#). This is a 1-trimester course designed to give students an overall introduction to careers in the residential construction trades. The course content will include topics and hands-on activities that explore the typical construction practices and trades used when building a residence. Due to the limitations of our current facilities, some topics will be covered with more detail than others. Safety in hand and power tool use will also be covered.

Mastery Standards:

Students will analyze how structures are constructed using a variety of processes and procedures (AC1.a.10.h).

Students will apply measurement systems in the planning and layout process used in the residential construction industry (AC1.b).

Students will identify design solutions for residential construction problems (AC1.b.11.h).

Students will calculate required materials for residential construction applications AC1.b.12.h).

Students will demonstrate and use the common hand tools of the trade safely and properly (AC1.c.5.h).

Students will solve common residential construction problems (AC1.e.15.h).

Students will prepare the site layout utilizing common surveying equipment and/or create a site plan (AC1.g.11.h).

Students will identify the skills and building techniques that are utilized to construct energy efficient, safe, healthy and comfortable structures (AC1.h.12.h).

Unit	Description of Unit and Learning Targets
Unit Title: 1 <u>Essential Questions:</u> <ul style="list-style-type: none">How does understanding construction technology help us improve our quality of life in our residences?	Students will... <u>Learning Targets:</u> <ul style="list-style-type: none">I can explain what are the most common trades in the construction industry area and what each requires to become proficient.I can explain how the successful operation of each trade contributes to a higher quality of life in our residences.
Unit Title: 2 <u>Essential Questions:</u> <ul style="list-style-type: none">Why is it important to apply accurate measuring skills and proper construction procedures in residential construction?	Students will... <u>Learning Targets:</u> <ul style="list-style-type: none">I can explain how to properly locate a building on a site.I can correctly "read" architectural plans to determine accurate dimensions, sizing, and locations of all building components.I can safely and properly operate the hand tools and power tools needed for concrete work, wood framing, plumbing, electrical, drywall, roofing and siding.