

Housing Designs

House Construction, Space Planning and Landscaping

Essential Understandings	<ul style="list-style-type: none"> ▪ The structures of houses have common parts with symbols to indicate the details. ▪ Doors and windows come in a variety of designs. ▪ Floor plans must be functional. ▪ Landscaping can extend and enhance social space.
Essential Questions	<ul style="list-style-type: none"> ▪ What are the essential parts of the structure of a house? ▪ What are blueprint symbols? ▪ What are the various kinds of doors and windows commonly used in our current housing? ▪ What are some basic rules and requirements for the space needs in bedrooms and floor plans? ▪ What are the elements of a house's natural environment? ▪ How can a site be landscaped? ▪ What floor plan might provide for the student's future needs?
Essential Knowledge	<ul style="list-style-type: none"> ▪ The parts of a house's structure have names. ▪ House plans have common "blueprint" symbols. ▪ Doors and windows came in a variety of styles depending on their use and the desired appearance. ▪ There are certain minimum requirements for spaces in a bedroom and throughout the house to facilitate safety, traffic patterns and function. ▪ The natural environment should be considered when selecting a home or building site. ▪ House sites can be landscaped to satisfy an individual's personal wants and needs. ▪ Horticulture provides practical information about appropriate plantings according to climate zones. ▪ Floor plans must be suited to individual needs and wants.
Vocabulary	<ul style="list-style-type: none"> ▪ <u>Terms:</u> <ul style="list-style-type: none"> ○ ridge, rafter, joist, rough board, siding, stud, sheet rock, header, sole plate, beam, foundation, footing etc. blueprint symbols, panel, screen, louvered, jalousie doors etc., double hung, casement, paladin, gliding sash windows etc. Wind break, site, cross ventilation, orientation, site, landscaping, horticulture
Essential Skills	<ul style="list-style-type: none"> ▪ Identify and label the parts of a house structure. ▪ Identify blue print symbols. ▪ Distinguish among and label 8-10 types of windows and doors. ▪ Evaluate space needs and requirements of problem floor plans. ▪ Illustrate the meanings of a house's natural environment. ▪ Apply the understanding of space and function to the personal selection and drawing of a complete house floor plan.

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Related Maine Learning Results	<u>Career and Education Development</u> B. Learning About and Exploring Education and Career and Life Roles B2.Skills for Individual/Personal Success in the 21 st Century Students develop strategies to improve skills that lead to lifelong learning and success in the classroom, and the achievement of schoolwork, work and career, and personal life goals.
Sample Lessons And Activities	<ul style="list-style-type: none"> ▪ Label the parts of a structure of a house from a word bank ▪ Take a quiz to match building structure terms with numbered parts of a wooden model of a house ▪ Use the text book as a resource to identify the blue print symbols. ▪ Have a contest to identify 12 types of wood ▪ Label a variety of door and window types, distinguishing the key differences, and memorize them for a quiz ▪ Draw out furnishings and traffic patterns for 3 problem floor plans ▪ Make a photo booklet to illustrate natural environment terms ▪ Design a site plan to landscape including a list of features ▪ Internet research of horticulture info that applies to plantings/zoning ▪ Select and complete a full to-scale drawing on graph paper of their projected "dream house" floor plan
Sample Classroom Assessment Methods	<ul style="list-style-type: none"> ▪ Quizzes over terms, blue print symbols ▪ Completed problem floor plans ▪ Photo booklet of terms, definitions, illustrations ▪ Completed worksheets from internet search ▪ Completed dream floor plan
Sample Resources	<ul style="list-style-type: none"> ▪ <u>Publications:</u> <ul style="list-style-type: none"> ○ <u>Homes Today and Tomorrow</u>, Glencoe and accompanying workbook