TECH: Residential Construction - House Planning (Module

Summary

New pdf. Floor Plan worksheet in 2009 -student file in 2008. Students will design a single level interior floor-plan and print the output to hand in.

Time Frame

3 class periods of 60 minutes each

Group Size

Pairs

Life Skills

Thinking & Reasoning, Communication, Employability

Materials

A list of materials are as follows: A Computer, Software - Punch! Super Home Suite, Color Laser Printer, white legal paper, and an architect's scale.

Background for Teachers

This is a replacement activity for the 1992 House Planning activity that the outer walls of the house were made from cardboard containers. In this version, the house is drawn on 1/4" graph legal paper and called the floor plan worksheet. The students do a preliminary design of a ranch style house on this paper. The instructor is responsible for guiding the students on how to adapt their design to meet the specifications. The final version is done on the computer using the software Super Home Suite. The students house is set at 30'-0" x 45'-0". A garage may be added to the plan when it is put on the computer. A print out from the computer is then turned into the instructor. The images on this document come from a variety of sources. They are either public domain, royalty fee, created by the author, or used by arrangement with the copyright holders. No permission is granted for the copying or re-use of any images used in this document, copyrighted or otherwise. Residential Construction - House Planning© USOE has purchased rights to the document which gives individual teachers within the state of Utah rights to print this document for use in their classes.

Student Prior Knowledge

It is suggested that students read the booklet prior to activity. Basic knowledge of operating a computer is helpful.

Intended Learning Outcomes

Practice problem solving skills and explore ways to develop independence and take responsibility. Explore the construction technologies used in our world. Use career information to explore various occupations of personal interest. Identify school courses that support career interests. Students will develop an understanding of architectural design. Students will develop abilities to apply the design process.

Instructional Procedures

Day 1 : Students read the booklet and answer questions. Students are given the floor plan worksheet. Students begin working on their floor plan worksheet. Students will have to take the floor plan

worksheet home and bring it back finished to complete this activity on time. Day 2: Students plans are checked and they start on the computer. Day 3: Students finish the drawing and print out the labeled rooms with doors, windows and some furniture added. If there is time, students may take a virtual tour of the house before the period ends. Teachers will need to make sure that the software is loaded and that the computer has a printer for output. Teachers will need to instruct students as to where their work should be saved. Students sit down and read and follow directions.

Strategies for Diverse Learners

Students may be given the same assignment and directed to complete the assignment with a second floor or a deck attached. The student will then have to work on floor heights and or topography.

Extensions

Two extensions are included in the PDF document. 1. Adding other objects , and 2. Virtual Tour using "Live View"

Assessment Plan

Students will fill out the worksheet in the PDF file. Students will design on the floor plan worksheet (FPW) and the final output from the computer. The teacher will visually check all documents during the planning stage on the FPW and after on the final printout to see that they are on task and understanding the concepts.

Bibliography

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