Blackhawk School District

CURRICULUM

Course Title:	**Home Improvement**
Course Number:	**1023**
Grade Level(s):	**9-12**
Length of Course:	**1 year (every other day)**
Credits:	**.5**
Faculty Author(s):	**Dale Moll**
Date:	**January 2010**

COURSE DESCRIPTION:
This is a full year course that meets alternating days of the week. This course is designed to introduce students to the technology and techniques of home remodeling, renovation, and maintenance. Projects will include: room planning and remodeling, furniture repurposing, exploration in plumbing and electrical, and basic home repair.

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
Intro- class overview **Intro to parts of a home** • **Plumbing** • **Roofing** • **Doors/Windows** • **Electrical** • **Cabinets** • **Furniture** • **Heating/ Cooling** • **Furnishings/Fixtures** • **Foundations** • **Walls** • **Safety** **Foundations** • **Types** • **How far does it have to go down** • **Supports** **Walls** • **Stud** • **Wood** • **Metal** • **Load Bearing** **Plumbing** • **Copper** • **PVC** • **Steel** **Electrical** • **Wiring a Plug** • **Wiring a Light** • **Wiring a Switch** • **Types of switches and**	3.4.12.A2. Describe how management is the process of planning, organizing, and controlling work. 3.4.12.A3. Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). 3.4.10.B3.Compare and contrast how a number of different factors, such as advertising, the strength of the economy, the goals of a company and the latest fads, contribute to shaping the design of and demand for various technologies. 3.4.10.B4. Recognize that Technological development has been evolutionary, the result of a series of refinements to a basic invention. 3.4.12.B1. Analyze ethical, social, economic, and cultural considerations as related to the development, selection, and use of technologies. 3.4.10.C1. Apply the components of the technological design process. 3.4.12.C2. Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. 3.4.12.C3. Apply the concept that many technological problems require a multi-disciplinary approach. 3.4.10.D1. Refine a design by using prototypes and modeling to	1 Day 5 Days 6 Days 8 Days 12 Days 12 Days	Handouts Foam Core Concrete Block 2x4 Studs Nails Wood glue Copper Pipe PVC Pipe Solder Soldering torch Electrical Wire Outlets Lights Switches Light bulbs	

outlets **Doors and Windows** • **What do you need for a door and window in house** • **How to install a door knob** **Roofing** • **Materials** • **Trusses** **Furnishing/ Finishes** • **Floors** • **Casework** • **Furniture/ Furniture Repurposing** **Heating and Cooling**	ensure quality, efficiency, and productivity of a final product. 3.4.12.D2. Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. 3.4.10.D3. Synthesize data, analyze trends, and draw conclusions regarding the effect of technology on the individual, society, and the environment. 3.4.12.E4 Synthesize the effects of information and communication systems and subsystems as an integral part of the development of the Information Age. 3.4.12.E6. Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world. 3.4.12.E7. Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world.	8Days 8 days 15Days 5 Days	Door knobs and deadbolts Wood to mount Bass wood Super glue Finishes Stains Sandpaper Power tools Glue Glue Guns Overview of how it works and different methods of heating and cooling	