

Industrial TechnologyBALDWIN HIGH SCHOOL
INDUSTRIAL TECHNOLOGY DEPARTMENT

COURSE NAME: HOME REPAIR AND REMODEL

INSTRUCTOR: Mr. Harman

COURSE CREDIT: 1/2 credit (1 semester)

COURSE OBJECTIVE: The student will know the safe use of tools used in home repair, be aware of terms used in the construction of houses, be able to diagnose and possibly repair minor household problems, and have an understanding of what a repair job entails.

INSTRUCTIONAL METHODS: Lecture, demonstration, individualized instruction, and hands on learning.

EVALUATION SYSTEM: Course grade is determined by:

Tests	50%
Daily point accumulation	25%
Worksheets	25%

TEXTBOOK: Home repair and maintenance.
Jack M. Landers

CHAPTER 1 THE HOME

OBJECTIVE: List maintenance jobs needed most often and describe benefits of home maintenance.

READ : PAGE 7 - 11

PROBLEMS: QUESTIONS 1-4, PAGE 11

CHAPTER 2 HOME SAFETY

OBJECTIVE: Safe work habits promote safety, identify possible hazards in the home.

READ: PAGE 12 - 18

PROBLEMS: QUESTIONS 1 - 13, PAGE 17

CHAPTER 4 BASIC HAND TOOLS

OBJECTIVE: Recognise some tools used for measuring , fastening, cutting, drilling and proper applications.

READ: PAGE 21 - 38

PROBLEMS: QUESTIONS 1 - 10, PAGE 38
MEASURE WORKSHEET
FRACTION WORKSHEET

CHAPTER 5 POWER TOOLS

OBJECTIVE: Select the correct tool for the job,
know the safety for that machine,
know the main parts of the machine.

READ: PAGE 39 - 47

PROBLEMS: QUESTIONS 1-11 PAGE 47
SAFETY TESTS OVER APPROPRIATE
MACHINES.

CHAPTER 6 FASTNERS

OBJECTIVE: Know common fastners, choose proper
harware for the job, produce strong
joints between materials.

READ: PAGE 48 - 57

PROBLEMS: QUESTIONS 1 - 12 PAGE 57

CHAPTER 15 CONCRETE, MASONRY, AND FIREPLACE

MAINTENANCE.

OBJECTIVE: Know the components of concrete, compute amount of concrete needed, know how to pour and finish concrete, and repair concrete and masonry.

READ: PAGE 132 - 141

PROBLEMS: PAGE 141 **QUESTIONS** 1-15

CHAPTER 7 LUMBER AND BUILDING MATERIALS

OBJECTIVE: Know common hardwood and softwood species, read grade markings on lumber and plywood, choose wood products by cost.

READ: PAGE 58 - 66

PROBLEMS: PAGE 66 **QUESTIONS** 1-16

CHAPTER 8 STRUCTURAL PARTS OF A HOUSE

OBJECTIVE: Know terms used for materials, masonry units, and wood framing members.

OBJECTIVE: List types of doors and windows, describe how to hang a door, know the procedure for reglazing glass.

READ: PAGE 92 - 102

PROBLEMS: PAGE 102 QUESTIONS 1 - 10

CHAPTER 12 INTERIOR WALLS AND CEILING

OBJECTIVE: Recognise types of wall and ceiling material, know steps to repair holes and cracks in walls.

READ: PAGE 103 - 116

PROBLEMS: PAGE 116 QUESTIONS 1 - 15

CHAPTER 26 ELECTRICAL DISTRIBUTION SYSTEMS

OBJECTIVE: Calculate ohm's law problems, know electrical safety, know basic electrical terms.

READ: PAGE 250 - 268

PROBLEMS: PAGE 267 QUESTIONS 1 - 10
OHM'S LAW PROBLEMS

CHAPTER 27

APPLIANCE MAINTENANCE, ELECTRICAL
AND MECHANICAL

OBJECTIVE:

Be able to determine minor appliance problems, diagnose minor household repairs.

READ:

PAGE 269 - 278

PROBLEMS:

PAGE 277

QUESTIONS 1 - 13

CHAPTER 23

POTABLE WATER SYSTEM

OBJECTIVE:

Know how to choose kinds of pipe and fittings for the job, know how to solder copper pipe, know how to join plastic pipe, do basic faucet repair.

READ:

PAGE 219 - 229

PROBLEMS:

PAGE 229

QUESTIONS 1 - 16

CHAPTER 24

WASTE DISPOSAL SYSTEMS

OBJECTIVE:

Know terms used in waste systems, know how to fix common toilet

problems, know purpose of traps and vents.

READ: PAGE 230 - 245

PROBLEMS: PAGE 244 QUESTIONS 1 - 20

CHAPTER 32 INSULATION

OBJECTIVE: Know types of insulation, know what R-value is, be able to apply weatherstripping.

READ: PAGE 309 - 318

PROBLEMS: PAGE 318 QUESTIONS 1 - 16

CHAPTER 28 HEATING

OBJECTIVE: Be able to diagnose some of the minor problems associated with heaters, know the types heat, know minor maintenance for heaters.

READ: PAGE 279 - 290

PROBLEMS: PAGE 290 QUESTIONS 1 - 12

CHAPTER 29

HOME COOLING

OBJECTIVE:

Know some of the air conditioning terms and parts, learn how to plan the cooling capacity for a building.

READ:

PAGE 291 - 297

PROBLEMS:

PAGE 296

QUESTIONS 1 - 10

CHAPTER 30

DOMESTIC HOT WATER HEATING

OBJECTIVE:

Safety of hot water heaters, testing the flue, maintenance of hot water heaters.

READ:

PAGE 298 - 302

PROBLEMS:

PAGE 302

QUESTIONS 1 - 5

CHAPTER 16

LANDSCAPE MAINTENANCE

OBJECTIVE:

Know how to sharpen a lawnmower blade, know how and when to change oil in a lawnmower, know some of the ways to plant grass and trees.

READ:

PAGE 142 - 149

PROBLEMS:

PAGE 149

QUESTIONS 1 - 15

CHAPTER 14

CABINETS

OBJECTIVE:

Recognise cabinet styles, know how to install laminates, observe various designs for efficient kitchens.

READ:

PAGE 123 - 131

PROBLEMS:

PAGE 131

QUESTIONS 1 - 10

CHAPTER 18

WOOD, METAL, FURNITURE FINISHES

OBJECTIVE:

Know types of abrasives, know types of wood coatings, know types of maintenance on metal furniture.

READ:

PAGE 169 - 179

PROBLEMS:

PAGE 179

QUESTIONS 1 - 20

CHAPTER 19

FURNITURE REPAIR

OBJECTIVE: Know how to remove finishes, choosing glue for a project, fixing dents or holes in furniture.

READ: PAGE 180 - 187

PROBLEMS: PAGE 186 QUESTIONS 1 - 16
