AUTO PRODUCTION UNIT

INTRODUCTION

This is a scope and sequence model which demonstrates the initiation of a creative idea to the designing, manufacturing, and marketing of the idea.

This is a project which students get very involved becauce they can roleplay, exercise leadership skills, use the design process to find solutions and use problem solving techniques. They must apply concepts in math, science, and technology to create the product and they must apply skills in art, language and business to market the vehicle. The unit takes only 5-10 days and uses materials that can be found in the typical classroom. This unit is appropriate for all ages and skill levels and is to be run in groups of 3-5 students. A marketing display should accompany each auto so that they may be judged by students, teachers, parents, administrators, and guests from industry.

A track can be built with two lanes at a 30 degree incline to test the speed of the autos. The best of each class can race to find the school champ. If other schools in your district or region are doing the same unit you can race for the best school team. We will be holding the state championship races and displays at the Washington Technology Education Association Conference each year. For more information and assistance contact:

Kjell-Jon Rye Bellevue High Technology 601-108th Ave Bellevue, WA 98004 Tel. (206) 455-6146

TIME TABLE

ONE

Introduction to Unit Job Responsibilities Rough Sketches

THREE Features Designed Advertising Theme Cut Materials

FIVE Assembly of Auto Set up Display/Advertisement Vote by Students Check Weight

Three View Drawing

Prints/Copies Layouts Drawn

TWO

FOUR

Features Drawn on Parts Ad Layout Wheel assembly

SIX Evaluation Day Weigh In/Race on Track

AUTO PRODUCTION UNIT

RULES

MATERIAL:

Drafting paper White Glue Wood Dowels for Axles

PAYLOAD:

Must Carry a gum eraser (1-2x1x1 or 2-1x1x1)
Must be able to remove payload

SIZE:

Under 3" Wide Under 8" Long Under 60 Grams with Payload More than 2 wheels Two Working Axles

IDENTIFICATION: on vehicle and advertisement

Name of School and Type of School (K-6, JrHS, HS, Col.) Month and Year Completed Names of Students in Group (3-5 in a group) Teacher's Name Period and Group Number on License Plate Company Name Clearly Visible on all work Town and State Names

ADVERTISEMENT: on display

Anything Goes To Sell the Product Should Have A Multi View Drawing Should have a Pictorial Drawing on Advertisment

AUTO PRODUCTION UNIT

EVALUATION

ENGINEERING TEST TRACK	0- NO SHOW 1- NO FINISH 2- FINISH 3- PLAYOFFS 4- CLASS CHAMP 5- GRAND CHAMP	25%
MARKETING STUDENTS	0- PURE JUNK 1- SLIGHT BLUNDER 2- NOT BAD 3- SUCCESS 4- RADICAL 5- AWESOME	25%
MANUFACTURING GUESTS	0- POOR 1- FAIR 2- O.K. 3- GOOD 4- VERY GOOD 5- EXCELLENT	25%
EMPLOYEE GROUP	0- NO HELP 1- LIMITED WORK 2- O.K. 3- GOOD 4- VERY GOOD 5- FANTASTIC	25%
COMPANY NUMBER	STUDENT NAME	100%

AUTO PRODUCTION UNIT JOB RESPONSIBILITIES

COMPANY	DESIGNATED	PERFORMED
NAME		
NUMBER	THE STATE AND ST	
PRESIDENT		
ENGINEERING		
DEPT. HEAD		
ROUGH SKETCH	ORIGINATION CONTROL CO	
MULTI-VIEW		
PRINTS		
MANUFACTURING		
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TOP/BOTTOM		
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