Southeast High School Lesson Plan

Name: Richard Platt - Week 7

Class: Advanced Technical Applications

CLEAR

Character Trait: Responsibility.your responsibility

Activity: Present your Engineering Profolio Binder

Standards: All standards are taught per Florida Department of Education Student Performance Standards for 8601900

Students Will Know

Will learn how to apply lessons learned from the CO2 Dragster Project to other more advanced assembly projects.

Students Will Be Able To

SolidWorks CAD software, 3D printers, Laser Engravers and CNC Router. In the future welding from parts cut on CNC Plasma cutter.

Lesson Essential Question: Have you organized your Engineering Portfolio Binders using the binder tab page as supplied on richardplatt.net? See below link to that page.

Activating Strategy

Students put book bags in parking lot. Student to get the Foundations of Engineering & Technology Textbook and read the assigned chapter below and answer questions in the workbook questions.

Key vocabulary to preview and vocabulary strategy: Metric System, micrometer, square, band saws, circular saws, scroll saws, Forstner bits

Learning Activity 1

Photo of YouTube Subscription to Richard Platt Training
& Screen Snip of bookmark bar in Chrome of three RA PLATT favicons for: 1) richardplatt.net, 2)richardplatt.net/teach-tutorials-page-2.html 3) www.youtube.com/user/Platttraining

Assessment Prompt for LA 1

Photo and submitted in schoology.

Learning Activity 2

CO2 Dragster Project complete all individual part(s) drawings (see CO2 dragster tutorials):
1) Axles 2) washers
3) axle clips 4) bushings
3) co2 Cartridge 5) eye screws
6) Dragster Body 7) Assembly Drawings

If assigned a special project, Photo 3D model and submit for this assignment. Your progress is very important. If progress must be made or will reassign back to CO2 Dragster

Assessment Prompt for LA 2

Photo and submitted in schoology.

Learning Activity 3

Read textbook and complete chapter 6 worksheets Engineering Portfolio.

Answer Key Vocabulary on copy paper attached to Worksheet #6:
See above for Key vocabulary to preview and vocabulary strategy

Assessment Prompt for LA 3

Scanned from & submitted in schoology & in binder

Graphic Organizer

Assignment

ALL ASSIGNMENTS EXTENDED:
TEST COMING...MUST HAVE WORKSHEET IN BINDER FOR TEST

1) Read textbook and complete chapter 6 worksheets Engineering Portfolio & Vocabulary

2) CO2 Dragster drawings 7 drawings

3) Photo of YouTube Subscription to Richard Platt Training
& Screen Snip of bookmark bar in Chrome of three RA PLATT favicons for: 1) richardplatt.net, 2) richardplatt.net/teach-tutorials-page-2.html 3) www.youtube.com/user/Platttraining

4) Buy any where - Safety Glasses & Sharpie your name on the side of the glasses.

Summarizing Strategy Students are to learn about engineering and technology from the textbook and worksheets. They are learn how to manual draft part drawings for their engineering portfolio and they are to learn how to use the 3D CAD software SolidWorks, producing drawings for their portfolio.

ESE/ESOL Accommodations Preferred seating closer to my desk/cube for my observation. Also, I have on my YouTube channel over 600 instructional video for students to follow along for better understanding.