

**CAWS Lesson Plan  
Template**

Program: Hydraulic Pressure

Instructor: Nate Ayers

Course Title: Physical Science

Date:	6/25/2011
Lesson Length:	1 Day
Topics:	Moving items using liquid movement

**OVERVIEW / ANNOTATION:**

Relate the movement of fluids in a hydraulic lift to an everyday situation in a plant setting

**BACKGROUND / PREPARATION:**

Contact Yutaka Cullman to provide a speaker to discuss hydraulics in their plant. Prepare projector and internet.

**PRIMARY LEARNING OBJECTIVES:**

See real life situations where hydraulic pressure is used. Use a speaker to link the practical uses of hydraulic pressure to the ALCOS and text book.

**ESSENTIAL QUESTION(S):**

What is hydraulic pressure? What kind of fluids are used in a hydraulic pump? How much weight can each hydraulic pump lift? How is this relative to me?

**MATERIALS, EQUIPMENT AND TECHNOLOGY RESOURCES**

<input checked="" type="checkbox"/>	Textbook		Lab Manual		Video		Other
	Adv. Committee	<input checked="" type="checkbox"/>	Posters	<input checked="" type="checkbox"/>	Multi-Media		
<input checked="" type="checkbox"/>	Speaker		Supplemental Materials	<input checked="" type="checkbox"/>	Internet		

**CONTENT STANDARDS & TASKS:** *Alabama Course of Study*

**PROCEDURES, ACTIVITIES, AND LEARNING EXPERIENCES**

	Individual work		Group Work		Lecture		Skills USA
<input checked="" type="checkbox"/>	Class Discussion		Project	<input checked="" type="checkbox"/>	Speaker		Live Work
<input checked="" type="checkbox"/>	Visuals	<input checked="" type="checkbox"/>	Review	<input checked="" type="checkbox"/>	Video		
	Homework	<input checked="" type="checkbox"/>	Handout		Field Trip		

**ASSESSMENT STRATEGIES**

	Homework		Portfolio		Class Work	<input checked="" type="checkbox"/>	Test
	Teacher Observation		Other:		Performance	<input checked="" type="checkbox"/>	Feedback from Discussion

**LESSON INSTRUCTION INCLUDES:**

	Safety Instruction		Presentation		Higher Order Reasoning
	Project-Based Learning		Role Playing		Work Ethics
	Integrated Academics		Simulation		Integrated CTSO Experiences
<input checked="" type="checkbox"/>	Employability Skills		Problem Solving Skills		Management Skills

**TEAMWORK ACTIVITIES:**

Work as a group to see how many hydraulic pressure devices each use daily.

**PROVISIONS FOR INDIVIDUAL DIFFERENCES:**

Mix groups so that no one group is top heavy with advanced students.

**AVAILABLE STUDENT INDUSTRY CREDENTIALS:**

**COURSE / PROGRAM CULMINATING PROJECT:**