

# Understanding Mechanical Devices and Their Components

# Peter, Rob, and Tamisha



# Class Profile



- Elective engineering class
- 23 students
- 21 males
- 2 females

# Objectives

Given a review of the contributions of Leonardo da Vinci, a set of e-activities on those contributions and set of virtual tutorials on mechanical components, the students were asked to identify the mechanical elements that cause common machines to function.



# Sequence of Events

- Review of the Life and Times of Leonardo da Vinci
- Inventor's Workshop Activities
- Pair up and select tutorial
- Worksheet in conjunction with tutorial
- Presentation to the class on tutorial

# Implementation

- We designed and created a web page linking each activity and tutorial to facilitate ease of instruction and limit distractions.
- [engineer.html](#)

# Implementaion



# Implementation

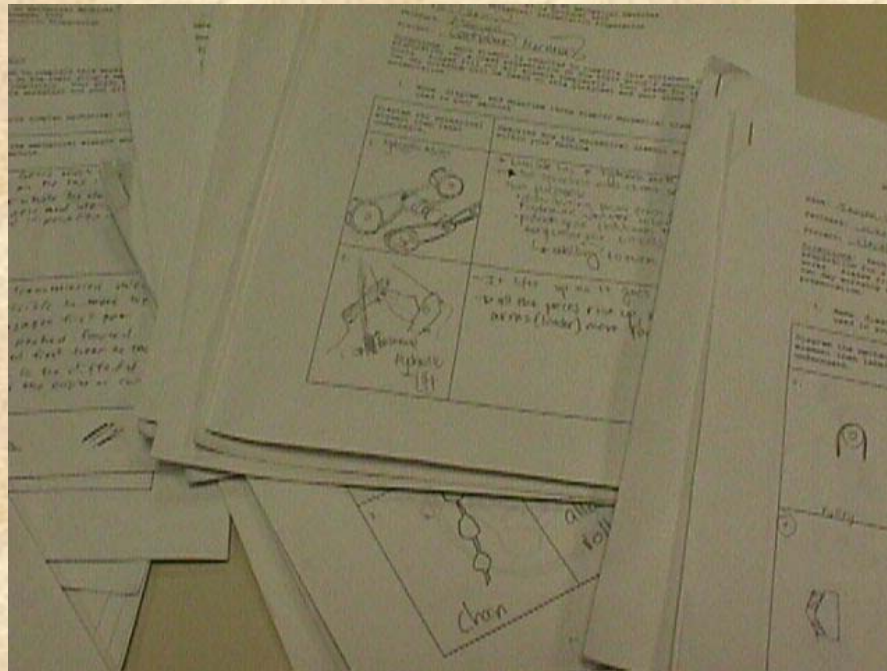


# Implementation

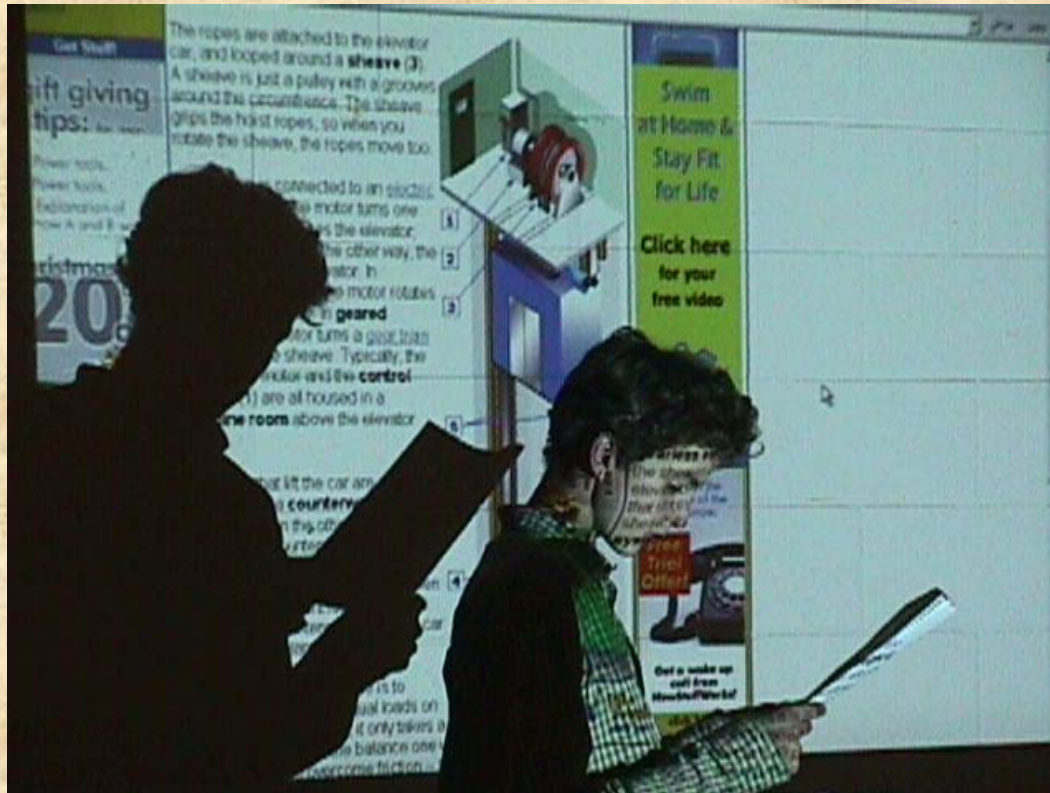


# Assessment of Understanding

## Completed Worksheets



# Assessment of Understanding Presentations



# Reflection

## Successes

- High level of student engagement
- Enthusiastic cooperating teacher response
- Appropriate content alignment



# Reflection

## Improvements

- Timing
- Content familiarity

