

Physics and Earth Science Meeting

Learning Outcomes:

Intentional Learning Strategy	Assessment Strategies
Number 1	
Prompt students verbally with questions that require listening skills, to respond (speak)	Evaluate the answers given
Student presentations (various formats)	Peer evaluations, various professors.
Writing a term paper	Grading rubric
Research papers and presentation	
Research Topics like energy use	Class presentation
Number 2:	
Calculate mean, Standard Deviation Graph and calculate slope	Presentations and peer evaluation
Using our wonderful weather station on top of building 9 I have students do a scatter plot of temperatures, dew points, etc. to see if there are any links.	Evaluate lab write up
Number 8	
Prepare a term paper	Evaluate the sources Use a grading rubric
Online Scavenger Hunt	Use of internet engines
Online lab simulation	Use internet, grade record sheets
Sailing trip (virtual) . Must sail through various lands/oceans/currents/dreams, etc	Project graded as a group
Number 9	
Illustrate Dynamics - Carnival Rides	Test knowledge of air bags, calculate the change in momentum
Momentum – Auto accident, animated demos	
Oscillations –Pendulum Clock	Work problems to discuss relation of period to length
Refraction & Dispersion - Rainbow	Use prism and diffraction grating
Gravitational Orbits – Shuttle,	Observe videos
Impedance	Radio tuning, demo with variable capacitor. Have students calculate resonance values of L and C
Field trip to Everglades	Observe the beauty of nature

Number 10	
Tour of National Hurricane Center (NHC) and see how human population affects NHC evacuation plans	Final exam has several questions to see if they understood.
Visual Flow Chart	Students will complete study guide questionnaire
Correlate rising levels of GHG to Global Warming.	
Understanding of Global Warming (Al Gore's video)	Paper answering a group of questions about the documentary
Everglades field trip	Questions in exam 3 and in the final exam.