Ihanktonwan Community College

Integrated Biological and Physical Sciences SC 202

Spring 2013 5-8pm

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**I may be a few minutes late due to Tuesday teacher meetings at the high school.**

**Books**

1.Stop Faking It! Finally Understand Science So You Can Teach It-Sound

Author-William C. Robertson, Ph.D. 2003

2.Stop Faking It! Finally Understand Science So You Can Teach It-Energy

Author-William C. Robertson, Ph.D. 2003

**Class Objectives**

-learn about physical science topics and relate them to biology and the world around us

-learn about these scientific topics and be able to present them in a hands-on explorative manner to children

-understand basics and applied concepts of work and energy with energy transformations

-understand basics and applied concepts of simple machines including efficiency

-understand basics and applied concepts of temperature, thermal energy, heat, and thermal conductivity

-understand basics and applied concepts of sound and harmonic convergence with math concepts

-study basics and applied concepts of music

-study properties of water, the forces in water, and how they apply to the world

-study basics and applied concepts of weather

**Schedule**

**Energy**

1/15 introduction

1/22 chapter 1 energy

1/29 chapter 2 energy and movement

2/5 chapter 3 simple machines

2/12 chapter 4 temperature/thermal energy

2/19 chapter 5 heat/thermal conductivity

2/26 chapter 6 energy transformations

**Sound**

3/5 chapter 1 and 2 basics and application of sound

3/12 chapter 4 and chapter 4 transferring sound/harmonic convergence

3/19 / chapter 5 applying math and waves/ midterm and teach a lesson with visual aids and activities

3/26 spring break? this week will replace the actual spring break if this date is incorrect

4/2 chapter 5 applying math and waves chapter 6 and chapter 7 basics and application of music

4/9 chapter 6 and chapter 7 basics and application of music

**Other topics**

4/16 water properties and forces/teach lesson on sound

4/23 weather basics

4/24 finish applied concepts of weather/teach lesson with visual aids and activities

5/1 final exam

**Points**

Attendance 25 points

Notes-20 points

Daily Quiz 30 points

Lessons taught 50 points (2)

Midterm 100 points

Final exam 100 points

**Grading**

90-100 A

80-89 B

70-79 C

69 below F

**I reserve the right to make changes to the schedule as I deem necessary.**