



TEXAS REGIONAL COLLABORATIVES FOR EXCELLENCE
IN SCIENCE AND MATHEMATICS TEACHING

Energy and Matter in Biological Systems

Monday-Friday, January 10-14, 2011

8:30 a.m. – 4:00 p.m.

Breakfast at 8:00 a.m.; Lunch will be provided

The University of Texas at Austin
Center for Inquiry in Science and Math
Robert Lee Moore Building (RLM) Room 7.114
(Corner of Speedway and Dean Keaton)

Presenters: Dr. Peter English and Dr. Jennifer Fritz
Administrators: Dr. Sacha Kopp and Dr. Ruth Franks
Lab Coordinator: Julie Bowers

Monday, January 10, 2011 Agenda

BREAKFAST

Welcome and Introduction to PDA and Pre-assessments

BREAK

Radiant Energy Transfer

Chapter 2, Activity 3, Exercise 2

LUNCH

Radiant Energy Transfer

Chapter 3, Activity 1, Exercise 1

BREAK

Visible Light Transfers Energy in Living Systems

Chapter 2, Activity 1, Exercise 1

Tuesday, January 11, 2011 Agenda

BREAKFAST

Evidence of Photosynthesis-Tracking Oxygen

Chapter 3, Activity 1, Exercise 2

BREAK

Evidence of Photosynthesis-Tracking Sugar

Chapter 3, Activity 2, Exercise 1

LUNCH

Evidence of Photosynthesis-Tracking Carbon Dioxide

Chapter 2, Activity 2, Exercise 2

BREAK

Photosynthesis-Modeling the Energy and Matter Flow

Chapter 3, Activity 3, Exercise 1-2

Energy and Matter in Biological Systems

Wednesday, January 12, 2011 Agenda (late day: ends 6pm)

<i>BREAKFAST</i>
Alive, Dead, or Never Alive Chapter 4, Activity 1, Exercise 1-3
<i>BREAK</i>
Exploring Characteristics of Life Chapter 4, Activity 3, Exercise 2-4
<i>LUNCH</i>
Sorting Life: Phenotype and Genotype Chapter 4, Activity 4, Exercise 1-2
<i>BREAK</i>
LAB Tours
Reception Robert Lee Moore Building (RLM) 4th floor Lecture RLM 4.102

Thursday, January 13, 2011 Agenda

<i>BREAKFAST</i>
Modeling Inheritance Chapter 6, Activity 1, Exercise 1-2
<i>BREAK</i>
Modeling Molecules of Inheritance Chapter 6, Activity 2, Exercise 1
<i>LUNCH</i>
Population Variation Chapter 7, Activity 1, Exercise 1-2
<i>BREAK</i>
Population Variation Discussion: Evidence

Friday, January 14, 2011 Agenda

<i>BREAKFAST</i>
Expert Time: Bring Your Questions
Post Assessment
<i>BREAK</i>
Post Attitude Assessment
Wrap- Up
<i>LUNCH</i>