

August 2011 – May 2012

**1:00-2:30**

Kingdom Builders Homeschool Cooperative

[www.kingdombuilderscoop.com](http://www.kingdombuilderscoop.com)

## Exploring Creation with Physical Science

Students need to complete **all** the reading assignments, work **all** the problems, answer **all** the questions, and take **all** the tests AT HOME (**Except where noted on syllabus**). Weekly lab time will be spent doing experiments. I will collect and grade tests. Students **must** memorize definitions, specified formulas, and any other facts as assigned. Please review the Lab Report Template and keep it for reference for use with every lab write-up.

The following items are to be done **outside** of the lab classes:

- On Your Own (OYO) questions (self-check answers at end of chapter)
- Study Guide Questions.
- Module Summaries. Optional for extra credit. See Extra Credit Information.
- Module tests. Most taken at home. Some are in-class tests. I will grade.
- Lab notebook.

Fridays are lab days, with 4 days of reading material, review and test taking. You are strongly encouraged to adhere to the attached schedule so that you/your student will be thoroughly prepared. Homework will be checked.

<b>Grading Scale</b>	Tests	40%
	Homework	10%
	Lab Notebook	25%
	Oral Presentation	25%

- Apologia Exploring Creation with Physical Science, 2<sup>nd</sup> edition, ISBN 978-1-932012-77-4
- Apologia Exp. Creation with Physical Science Solutions & Tests Manual **not needed**.
- Apologia Exp. Creation with Physical Science Companion CD **Optional**
- Lab notebook (marbled composition notebook or 1" 3-ring binder)
- Student's answers to questions, problems and tests kept in a 3-ring binder, divided by module. Dividers will be provided the 1<sup>st</sup> day of class.
- Sharpened Pencils, blue or black in pens
- Calculator

**BRING ALL OF THE ABOVE TO CLASS EACH FRIDAY. Stay on schedule.**

Teacher Contact:

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### Course Objectives

- To gain a better understanding and appreciation of God's Creation - "from the inner-workings of atoms to the grandeur of galaxies!"
- To begin and maintain a lab notebook
- To serve as a stepping stone between middle school and high school science.

### Course Prerequisites

- Algebra I (suggested)

### Exploring Creation with Physical Science, 2<sup>nd</sup> edition

Please note that we are meeting on Fridays. The expectation is that the student will have read and completed assignments prior to coming to class. **This includes the first week of class.**

#### Week 1 (Class date August 26, 2011)

Read syllabus, lab notebook handout, all class notes on KB website. Determine whether you will be using lapbook, notebook paper, or word processor to complete study guide. More details of each method will be provided the first day of class. With parent, read pages iv-vi. We will not be completing lab reports as Dr. Wyle suggests. In order to prepare for Kingdom Builders upper level science classes, we will be using the guidelines provided on KB website.

**Mon** Read pages 1-7. Answer On Your Own questions 1 & 2. Define terms on page 24.

**Tue** Rd pp 7-14. OYO 3-5.

**Wed** Rd pp 14-20. OYO 6-10.

**Thu** Answer Study Guide Questions

**Fri** Discuss notebook, syllabus, homework, lab notebook. Write pre-lab for Exp 1.1 together. Perform Exp 1.1 and 1.3. Hand out completion of lab report.

**NOTE:** This is the only week you will be doing an entire module in one week. Do not stress over your answers. We will work together on them in class. I will be checking to make sure you attempted to do the work, but if you have problems with some of the questions, leave them blank and we'll go over the problems.

#### Week 2 (Class date September 2, 2011)

**Mon** Study for module 1 test.

**Tue** Take module 1 test.

**Wed** Read 36-42; OYO 2.7-2.9; SG 1-5

**Thu** Read 32-36; OYO 2.5-2.6; SG 6-12 Write exp 2.3 pre-lab

**Fri** Collect tests. Review homework. Introduce oral presentations. Exp. 2.3

#### Week 3 (Class date September 9, 2011)

**Mon** Complete lab report. Memorize vocabulary.

**Tue** Read 36-42; OYO 2.7-2.9; SG 13-15

**Wed** Read 42-50; OYO 2.10-2.11; SG 16-20

**Thu** Study for test 2

**Fri** Hand back tests and discuss problems; Review homework; Prep for test2; exp 3.1

#### Week 4 (Class date September 16, 2011)

**Mon** Study for module 2 test.

**Tue** Take test.

**Wed** Read 55-60; OYO 3.1-3.2; SG 1

**Thu** Read 60-66 top; OYO 3.3-3.6; SG 2-9; exp 3.2 pre-lab

**Fri** Collect and go over module 2 tests; review homework; collect lab notebooks (students may keep 3.2 pre-lab); exp 3.2

#### September 23rd Fall Break

## Syllabus: Physical Science 2011-2012

### Week 5 (Class date September 30, 2011)

- Mon** complete exp. 3.2 report
- Tue** read 66-69 bottom; OYO 3.7-3.8; SG 10-12
- Wed** read 70-76; OYO 3.9-3.11; SG 13-17
- Thu** memorize vocabulary
- Fri** Hand out module 2 tests. Hand out and go over lab notebooks. You may have one week to make corrections and improve grades. Review homework; prep for module 3 test; exp 4.1

### Week 6 (Class date October 7, 2011)

- Mon** Study for module 3 test.
- Tue** Take test
- Wed** Read 81-85 top; OYO 4.1; SG 1-2; correct lab notebook if desired
- Thu** Read 85-90; OYO 4.2-4.7; SG 3-7; exp 4.5 pre-lab
- Fri** Collect and go over test; grade corrected lab notebooks; review homework; Exp 4.2, 4.5

### Week 7 (Class date October 14, 2011)

- Mon** complete 4.5 lab report
- Tue** Read 90-97; OYO 4.8-4.11; SG 8-11
- Wed** Read 97-101; OYO 4.12; SG 12-14
- Thu** memorize vocabulary, study
- Fri** Hand out tests and address problems; review homework; Prep for module 4 test; exp 5.1. Module 4 in-class vocabulary test!

### Week 8 (Class date October 21, 2011)

- Mon** Study for module 4 test
- Tue** Take test
- Wed** Read 105-113; OYO 5.1-5.4; SG 1-4
- Thu** Read 113-116; OYO 5.5-5.6; SG 5-11; exp 5.3 pre-lab
- Fri** Collect and go over test 4; review homework; exp 5.3

### Week 9 (Class date October 28, 2011)

- Mon** Complete exp 5.3 lab report
- Tue** Read 116-120; OYO 5.7; SG 12-15
- Wed** Read 120-127; OYO 5.8-5.10; SG 16-21
- Thu** Memorize vocabulary
- Fri** Give back tests; Review homework; Prep for module 5 test; exp 6.2

### Week 10 (Class date November 4, 2011)

- Mon** Read 131-138; OYO 6.1-6.3; SG 1-3
- Tue** Exp 6.3 pre-lab; Study vocabulary
- Wed** Make sure you're caught up on everything!
- Thu** Study for module 5 in-class test.
- Fri** **Module 5 in-class test**; review homework; exp 6.3

### Week 11 (Class Date November 11, 2011)

- Mon** Complete exp 6.3 report
- Tue** Read 138-144; OYO 6.4-6.5; SG 4-15
- Wed** Read 144-153; OYO 6.6-6.10; SG 16-24
- Thu** Begin studying; memorize vocabulary
- Fri** Give back and go over tests; Review homework; prep for test 6; exp 6.4

## Syllabus: Physical Science 2011-2012

### Week 12 (Class Date November 18, 2011)

- Mon** Study for module 6 test
- Tue** Take test
- Wed** Read 157-161; OYO 7.1-7.2; SG 1-6
- Thu** Read 161-166; OYO 7.3-7.5; SG 7-10
- Fri** Collect and go over test 6; collect lab notebooks; review homework; make flubber

### November 25<sup>th</sup> Thanksgiving Break

### Week 13 (Class Date December 2, 2011)

- Mon**
- Tue** Read 166-172 top; OYO 7.6-7.8; SG 11-15
- Wed** Read 172-176; OYO 7.9-7.10; SG 16-20
- Thu** Study; memorize vocabulary
- Fri** Hand out tests & lab notebooks; review homework. Make thermometers.

### Week 14 (Class Date December 9, 2011)

- Mon** Study for Module 7 test.
- Tue** Take Module 7 test.
- Wed** Read 181-190; OYO 8.1-8.5; SG 1-13
- Thu** Read 190-199; OYO 8.6-8.10; SG 14-24
- Fri** **Module 8 in-class test, open book**; review homework; exp 8.1

# C H R I S T M A S      B R E A K !!

### Week 15 (Class Date January 13, 2012)

- Mon** study for module 8 test
- Tue** take test
- Wed** Read 203-208; OYO 9.1-9.3; SG 1-4
- Thu** Read 208-212; OYO 9.4-9.5; SG 5-8; exp 9.3 pre-lab
- Fri** Collect and go over tests; review homework; exp 9.1, 2, 3

### Week 16 (Class Date January 20, 2012)

- Mon** complete exp 9.3 lab report
- Tue** Read 212-218; OYO 9.6-9.8; SG 9-11
- Wed** Read 218-223; OYO 9.9-9.10; SG 12-17
- Thu** Study; memorize vocabulary
- Fri** Hand out tests; review homework; prep for module 9 test; Exp 10.1, 10.2

### Week 17 (Class Date January 27, 2012)

- Mon** Study for module 9 test
- Tue** Take test
- Wed** Read 229-237; OYO 10.1-10.3; SG 1-4
- Thu** Read 237-240; OYO 10.4-10.5; SG 6-7; Exp 10.4 pre-lab
- Fri** Collect and go over test; review homework; exp 10.3, 10.4

## Syllabus: Physical Science 2011-2012

### Week 18 (Class Date February 3, 2012)

- Mon** Complete exp 10.4 lab report
- Tue** Read 240-246; OYO 10.6-10.8; SG 8-12
- Wed** Read 246-249; OYO 10.9-10.10; SG 13-17
- Thu** Study; memorize vocabulary
- Fri** Hand out tests; review homework; prep for module 10 test; exp 11.1.  
**Module 10 in-class vocab test.**

### Week 19 (Class Date February 10, 2012)

- Mon** Study for Module 10 test
- Tue** Take test
- Wed** Read 255-259; OYO 11.1-11.2; SG 1-6
- Thu** Read 260-265; OYO 11.3-11.4; SG 7-11; exp 11.3 pre-lab
- Fri** Collect and go over module 10 test; review homework; Exp 11.3

### February 17<sup>th</sup> Teen Pact Break

### Week 20 (Class Date February 24, 2012)

- Mon** Complete exp 11.3 lab report
- Tue** Read 265-272; OYO 11.5-11.8; SG 12-21
- Wed** Read 272-280; OYO 11.9-11.10; SG 22-23
- Thu** Study; memorize vocabulary
- Fri** Hand out tests; review homework; prep for module 11 test; Exp 12.1

### Week 21 (Class Date March 2, 2012)

- Mon** Study for module 11 test
- Tue** Take test
- Wed** Read 285-290 top; OYO 12.1-12.2; SG 1-4
- Thu** Read 290-295; OYO 12.3-12.4; SG 5-8; Exp 12.2 pre-lab
- Fri** Collect and go over test; review homework; Exp 12.2

### Week 22 (Class Date March 9, 2012)

- Mon** Complete Exp 12.2 lab report
- Tue** Read 295-302; OYO 12.5-12.6; SG 9-14
- Wed** Read 302-308; OYO 12.7-12.10; SG 15-20
- Thu** Study; memorize vocabulary
- Fri** Hand out tests; review homework; prep for module 12 test; Exp 12.3

### Week 23 (Class Date March 16, 2012)

- Mon** Read 313-320; OYO 13.1-13.3; SG 1-6
- Tue** Read 320-325; OYO 13.4-13.5; SG 7-12
- Wed** Make sure you're caught up on everything! Begin studying.
- Thu** Study for Module 12 test.
- Fri** Pre-test review game. **Module 12 in-class test.** Review homework.

## Syllabus: Physical Science 2011-2012

### Week 24 (Class Date March 23, 2012)

- Mon** Get caught up on everything!
- Tue** Read 325-329; OYO 13.6-13.8; SG 13-17
- Wed** Read 330-336; OYO 13.9-13.10; SG 18-20
- Thu** Study; memorize vocabulary
- Fri** Hand out tests; review homework; prep for module 13 test; Exp 14.1 - 14.5

### Week 25 (Class Date March 30, 2012)

- Mon** Study for module 13 test
- Tue** Take test
- Wed** Read 340-347; OYO 14.1, 14.2; SG 1-5
- Thu** Read 347-351; OYO 14.2-14.4; SG 6-8.
- Fri** Collect and go over test; review homework; Exp 15.1, 15.3. Hand out notebooks.  
**Collect lab notebooks!**

### April 6<sup>th</sup> Easter Break

### Week 26 (Class Date April 13, 2012)

- Mon** Get caught up on everything!
- Tue** Read 351-355; OYO 14.5-14.8; SG 9-14
- Wed** Read 355-362; OYO 14.9-14.10; SG 15-19
- Thu** Study; memorize vocabulary
- Fri** Hand out tests; review homework; prep for module 14 test; Exp 15.2

### Week 27 (Class Date April 20, 2012)

- Mon** Study for Module 14 test.
- Tue** Take test.
- Wed** Read 367-374; OYO 15.1-15.4; SG 1-7
- Thu** Read 374-380; OYO 15.4; SG 8-13
- Fri** Collect tests; review homework; exp 15.4

### Week 28 (Class Date April 27, 2012)

- Mon** Read 381-385; OYO 15.5-15.8; SG 15.14-15.17
- Tue** Read 385-392; OYO 15.9-15.10; SG 15.18-15.21
- Wed** Start studying for test.
- Thu** Get caught up on everything!
- Fri** **In class vocab test!** Review homework. Experiment 15.5.

### May 4 GHEA Break

## Syllabus: Physical Science 2011-2012

### Week 29 (Class Date May 11, 2012)

- Mon** Study for Module 15 test
- Tue** Take test
- Wed** Read 397-401; OYO 16.1-16.2; SG 1-3
- Thu** Read 401-409; OYO 16.3-16.7; SG 4-11
- Fri** Collect tests; Review homework. Experiment TBA

### Week 30 (Class Date May 18, 2012)

- Mon** Read 409-413; OYO 16.8-16.9; SG 12-20
- Tue** Read 413-418; OYO 16.10; SG 21-25
- Wed & Thur** Study for open book test
- Fri** **In class open book test on Module 16. end of year party!!**

**Friday May 18, 2012 Last Day of Class, End of Session**