

8th GRADE SCIENCE

Science and Living in God's World 8

LESSON PLANS

To the Parent / Tutor:

This year, the student will learn about how science relates to the world around us. We can learn all of the scientific theory which we are able to digest; but, if we do not understand how scientific concepts can be – and indeed are – applied in our daily lives, all of our study is of little practical value. Again, as with previous years, it is the goal of this course to help young people form a proper outlook on science in general, and, particularly, on how science can be applied all around us for the Greater Glory of God. First, we must understand not just the theoretical aspects of science – the laws, the formulae, and the facts – but how these relate to everything around us in the world. Then, we can set about devising a practical plan for the return of science and scientists to the humble recognition that we are only discovering things which God, from time immemorial, had planned for us to discover.

This is God's World, and He allows us to discover things about His creation for our benefit and comfort, as long as we are doing so, ultimately, for His greater glory. We must always live according to God's plan for us and His creation; we have only to look to the magisterial teaching of Holy Mother Church for guidance in achieving this.

It is for this reason (among many others) that Our Lady of Victory School has re-introduced this series of Catholic textbooks into our science curriculum throughout our program. Nothing can take the place of a Catholic text -- which necessarily stresses the viewing of science, and all that is discovered through science, to be not only relevant to, but intimately connected with, the teachings of the Holy Roman Catholic Church.

The staff of Our Lady of Victory School and Lepanto Press have spent countless hours updating the text, *Science and Living in God's World 8*, with current information and illustrations. The text – and the course -- will cover most of the academic concepts recommended for the eighth grade by the National Academy of Sciences, as embodied in the National Science Educational Standards. Your child will examine the relevance of science in today's world, then study the world of animals, the respiratory and nervous systems, energy and its many forms, energy that travels in waves, machines and the work they do, and many other interesting things which make up a general science course. We feel confident that you will agree with us that this book provides everything a young Catholic, living in this world on the threshold of the new millennium, needs in order to cultivate a great love of God's creation through the study of science.

When completing the Quizzes, do not use the book to look up the answers.

Lab Phase:

During weeks 33 through 36, the student will conduct one experiment of his choice from the experiments described in the text and listed in the Lesson Plan for Week 33 (p. 18). Additionally, the student will choose one project from 'Things to do' p 359. The student will indicate which experiment and project he has chosen and keep a running record of comments regarding this experiment / project. A running record is accomplished by the student writing entries in a log, or record, in which he discusses the materials used, procedures followed, and original observations and conclusions. The log book or the detailed notes are to be sent to OLVS for tutor review when the experiment and the project are complete. The student will be graded on how complete and comprehensive the log book or notes are. No credit will be given for the experiment and project without a written record, nor will a Science grade be issued.

Important Note: Some of the recommended experiments are potentially dangerous when accomplished carelessly or haphazardly. It is absolutely mandatory that the parent/tutor supervise or help the student perform the experiments.

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Student's name: _____
City/State/Province: _____
Zip/Postal Code: _____
Parent's name: _____

ASSIGNMENTS: WEEKS 1 - 2

Text: *Science and Living in God's World 8*, Lepanto Press, 1998.

Use EZ Grader for finding grades of each written and oral assignment, and fill in each grade in the corresponding space to the right.

ANSWER ALL QUESTIONS IN COMPLETE SENTENCES.

1st week - Read the **Introduction**, pp 5 and 6.

Read and study Unit 1, Science and the scientific way, pp. 7-18, of *Science and Living in God's World 8*. (**S&LGW8**)

Answer '**Thinking it over**' p 18. Send graded paper to school. Grade _____

P 60, Your science dictionary. Write definitions of first eleven words listed. These words can be found in the Dictionary and Index in the back of the book. Be sure to familiarize yourself with words and definitions, for which you will be responsible on the First Quarter and Mid-term Tests. Grade _____

(Save these words and definitions in your folder as you will be asked to study them for the First Quarter and Mid-term tests.)

Total time for the week _____.

2nd week - Read and study pp 18-26, (**S&LGW8**)

Answer '**Thinking it over**' p 26. Grade _____

P 60, Your science dictionary. Write definitions of next eleven words listed. These words can be found in the Dictionary and Index in the back of the book. Be sure to familiarize yourself with words and definitions, for which you will be responsible on the First Quarter and Mid-term Tests. Grade _____

Take Quiz # 1. Send graded quiz to school. Grade _____

Total time for the week _____.

COMMENTS _____

For use by OLVS tutor only: Science - week 1 _____ week 2 _____