

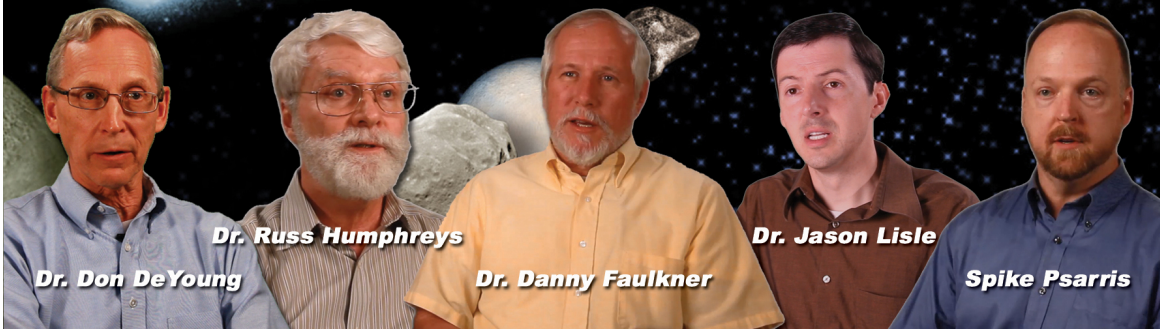
STUDY GUIDE

AWESOME SCIENCE MEDIA PRESENTS

EPISODE 4 *"Our Amazing Solar System"*

THE HEAVENS DECLARE

***A DVD Series exploring the scientific
evidence which supports the Biblical worldview
for the formation of the universe***



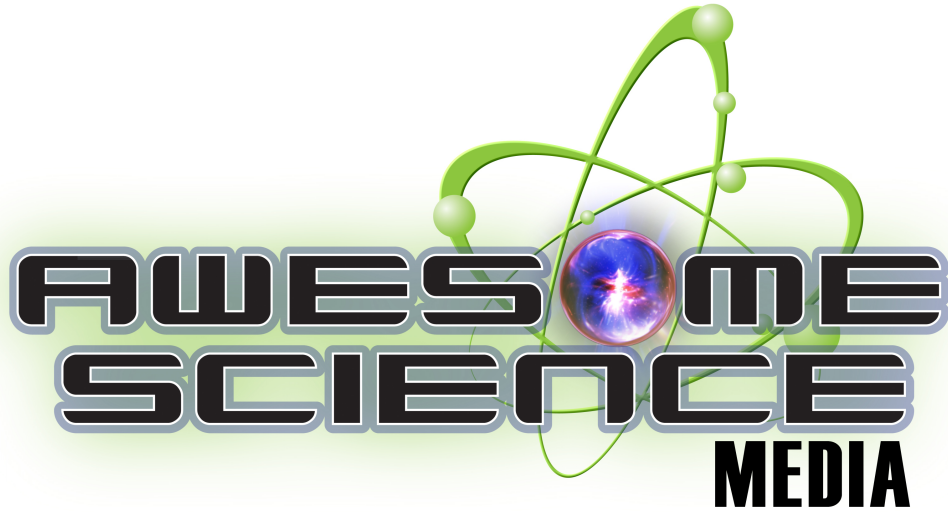
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Presents

The Heavens Declare – Episode 4
“Our Amazing Solar System”
Study Guide

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Introduction

Welcome to this study guide for the *Heavens Declare - Episode Five, "Our Amazing Solar System."* This guide is designed to be used by youth groups, Sunday schools, church groups, public school parents that want to reinforce their student's faith, or anyone that wants to go deeper in their understanding of the concepts presented in the video. It can also serve as curriculum for homeschool students.

Like the video, this study guide is broken-up into 12 different sections. Please start by watching a chapter of the video, and then complete the accompanying section in this guide. You will find the information presented in several different interesting formats:



Summary. These brief overviews will give a big-picture understanding of the content covered in the video.



Vocabulary. This will be an introduction of possible new terms.



Review Questions. These questions will help to clarify many of the concepts presented throughout the video. Answers to the questions will be presented at the end of this study guide.



Discovery Questions. These questions will take the student deeper in drawing their own conclusions to see the bigger picture. No answer key is provided.



Scripture Quotes. God's Word will clarify the truth of the concepts being presented.



Quote Boxes. These quotes will demonstrate man's thinking on different subjects.



Activities. These exercises will focus will provide creative ways to reinforce the information presented.

Chapter 1 – What is a Solar System?

Please start by watching Chapter 1 of the video, then complete the following section:



“What is the Solar System?” Summary

The solar system is a flattened disk, or plane (like a paper plate) consisting of the sun, planets, asteroids, comets, and satellites; everything that's under the gravitational influence and orbit around the sun.

There are eight planets in the solar system: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and then Neptune. The planets are broken down into two categories: terrestrial and gas. The closest four planets are made up mostly of rocky materials; these are called terrestrial planets, after terra, the name for earth. The outer four planets are made primarily of gas, and in the case of, Uranus and Neptune, ice (sometimes they are referred to as the ice giants) the last four are much bigger than the inner four.

Our solar system is unique to other stellar systems found in recent years. These other systems tend to have large Jupiter-like planets orbiting very close to their star, while our system has big Jupiter planets orbiting further away, with small, rocky worlds orbiting close to the sun.



Plane – A flat disk shape, like a paper plate.

Terrestrial Planets- Relating to the earth. After Terra which means earth.

Asteroid - A small rocky object in space that orbits the sun.



“What is the Solar System” Review Questions

1. What are the eight planets in our solar system?
2. How did the scientist in the video describe a plane?
3. What are the two categories are the planets in our solar system broken into?

4. What type of planet are the four rocky planets considered?
5. What “hard gas” do the last two planets consist of?
6. What planets are considered the ice giants?