

3-D Models for Geocentric, Heliocentric & Epicyclical Theories

Instructions for your individual project

Due: 09/25/2015

Today you will begin an independent project to create a 3-Dimensional model of one of three topics. Each student is required to build their own project, using simple materials that are sourced from around your home and the environment. **This project is due on Friday, 09/25/15.**

The Project Options are listed below:

- 1.) A 3D Model of the Geocentric Theory proposed by early astronomers
- 2.) A 3D Model of the Heliocentric Theory proposed by Copernicus
- 3.) A 3D Model of the movement of Epicycles as proposed in early astronomical theories.

There are photo galleries on the website to provide ideas for your project. Your celestial systems should be able to effectively show motion. You may create work that can be hung on the wall, but you must make your model out of 3-dimensional materials. Extra points will be given to students who achieve construction of a model that contains movable parts, since this will increase the accuracy of their 3D depiction.

Here are the parameters for your project:

- 1.) First, **draw a detailed illustration of your proposed model.** You must label each part, and include the specific materials you will use to build the components. This is due at the end of class on Wednesday, 09/23/15.
- 2.) **Locate and bring your materials for construction on Thursday, 09/24/15.** You will construct your models over the next two class days. Your models should be no larger than 12"x 12" when fully constructed.
- 3.) On Friday, 09/25/15, all students in 7th period Astronomy should be prepared to present their completed models to the class. Parts should be easy to identify, with small labels or tags added for clarification, if necessary.
- 4.) Due to the Pep Rally, 8th period Astronomy will present their models on Monday, 09/28/15. However, 8th period students should still come to class on 09/25/15 with their completed and ready to go.