

SCHEDULE

Vanderbilt Dyer Observatory Workshop – Avery Trace Middle School

September 23, 2016 8:00 a.m. – 3:00 p.m.

Presenters:	Dr. Billy Teets, Outreach Astronomer, Vanderbilt Dyer Observatory
	Dr. Bob Schweikert, Distinguished Volunteer, Vanderbilt Dyer Observatory
	Rocky Alvey, Director, Vanderbilt Dyer Observatory

Introduction 8:00 a.m. - 8:30 a.m. Breakfast Introduction to Vanderbilt Dyer Observatory and Staff • Brief Tour around the observatory ٠ Size Scales – The Solar System and Beyond 8:30 a.m. - 9:30 a.m. • Introduction to the planets and other bodies of our solar system and their characteristics Types of orbits • How astronomers discover exoplanets • Create scale models of our solar system and other objects (distances between stars, the galaxy, etc.) The Sun, Solar Observation, and Eclipses 9:30 a.m. - 11:00 a.m. Discuss the characteristics of our own star ٠ View the Sun safely through our solar telescopes • Demonstrate ways of safely viewing the Sun in the classroom • Discuss eclipses, including the upcoming 2017 eclipse, and how to view • eclipses safely Light 11:00 a.m. – 11:30 p.m. Introduction to Light • Introduction to Spectroscopy and Imaging ٠ Lunch 11:30 p.m. – 12:00 p.m. Introduction to Star Wheels and Stellarium ٠

12:00 p.m. – 12:30 p.m.	Star Chamber Visit
	Visit Dyer Observatory's Star Chamber
	Discuss the seasons and how the Sun's position changes
12:30 p.m. – 1:00 p.m.	Visit to Seyfert Telescope
	Discuss how telescopes work
	• View Venus through Dyer Observatory's Seyfert Telescope (weather-permitting)
1:00 p.m. – 1:45 p.m.	Sundials
	Overview of Sundials (how they work, history, etc.)
	Create simple sundials that can be constructed in the classroom
1:45 p.m. – 2:00 p.m.	Wrap-Up
	Final questions, evaluations, etc.

Additional Information:

- In the event of inclement weather, we will have additional activities ready to substitute for activities that require clear skies.
- A small stipend is available to teachers attending the entire workshop. A W-9 form will be made available during the workshop.