



**Appalachian
STEM
Academy**
at Oak Ridge

Appalachian STEM Academy

Tentative Middle School Schedule

Saturday, July 16

Arrive in Oak Ridge
Orientation

Sunday, July 17

Ropes Course
Academy-Wide Introduction to
Research Groups with Expert Speakers
Team Building with STEM Activities



Monday, July 18

Research Group Introductions
3D Printing Group: Introduction to
Printing and 3D modeling
Drones Group: History of Drones and
Introduction to Coding
Water Quality Group: Lab Safety and
Research Protocol
Smokies Baseball Game

Tuesday, July 19

Oak Ridge National Laboratory Tours
3D Printing Group: Basic Design
Practice in TinkerCAD
Drone Group: Basic Drone Commands
Water Quality Group: Basic Lab Skills
and Testing Procedures
Dinner and Cruise on Tennessee
Riverboat

Wednesday, July 20

3D Printing Group: Tour
Manufacturing Demonstration Facility
Drone Group: Advanced Coding for
Maneuvers and Coding/Using Sensors
Water Quality Group: Visit Water
Treatment Plant
Escape Room

Thursday, July 21

3D Printing Group: Testing and
Iteration
Drone Group: Unmanned Aerial
Systems Research Center Tour
Water Quality Group: Compilation of
Sample Testing Analyses
Pizza Night and Preparation for Final
Presentations

Friday, July 22

Final Presentations at Pollard
Auditorium
Presentation of Certificates of
Achievement and Photos
Luncheon for Participants and Guests
Depart for Home

