



ThermoFisher
SCIENTIFIC

West Virginia University
BENJAMIN M. STATLER COLLEGE OF
ENGINEERING AND MINERAL RESOURCES

MIDDLE SCHOOL AGENDA

Ideas to Impact: Engineering Your Path

July 7-11

DROP-OFF: 8:30* - 9:00 AM

PICK-UP: 5:00 PM

*Staff available at noon for early drop off



MONDAY

9:00 AM - Welcome

9:45 AM - Engineering Design Process (EDP)

10:00 AM - Rescue Ready: MINE Smoke Trailer Mission

11:00 AM - Discover Engineering

11:30 AM - Capstone Project Intro

12:00 PM - Lunch

12:30 PM - TinkerCAD Design Challenge

1:45 PM - Model Greenhouses

2:30 PM - Spool Racers: Mechanical Engineering in Motion

3:30 PM - Snack

3:45 PM - Color Quest: Chromatography Challenge

TUESDAY

9:00 AM - Icebreaker

9:15 AM - Brainstorm & Plan Capstone Projects

10:15 AM - TinkerCAD Design Time

11:00 AM - Chip & Dig: Cookie Mining Challenge

11:30 AM - MineScape VR Simulation: Dig Into the Future

12:00 PM - Lunch

12:30 PM - CAD Consultation Meetings with Lane Innovation Hub

1:45 PM - Tiny Tech, Big Impact: Antibiotic Resistance, Part 1

2:45 PM - Snack

3:00 PM - The Beast: Teamwork Challenge

WEDNESDAY

9:00 AM - Icebreaker

9:15 AM - Drone Challenge

10:45 AM - Capstone Project Design Time

12:15 PM - Lunch

12:45 PM - Capstone Project Design Time

1:30 PM - Tiny Tech, Big Impact: Antibiotic Resistance, Part 2

2:30 PM - Soundbytes: Composing Code with EarSketch

3:30 PM - Snack

3:45 PM - Fizz & Foam: Build Your Own Bath Bomb

THURSDAY

9:00 AM - Icebreaker

9:15 AM - Engineering Disaster Case Center with the WVU Purpose Center

10:30 AM - Learn from the Engineering Experts with **ThermoFisher Scientific**

11:30 AM - Capstone Projects

12:30 PM - Lunch

1:00 PM - LEGO BrickBot Showdown

2:30 PM - Engineering the Perfect Gummy Bear

4:30 PM - Snack

4:45 PM - Capstone Project Build Time

FRIDAY

9:00 AM - Icebreaker

9:15 AM - Defying Gravity: Rocket Reaction Lab

10:00 AM - H2O Know: How We Clean Our Water

12:00 PM - Lunch

12:30 PM - Fizzology: The Art & Science of Bath Bombs

1:30 PM - Capstone Project Build Time

3:00 PM - Snack

3:15 PM - Finalize Capstone Project

3:45 PM - Capstone Presentations - Judges Showcase

4:15 PM - Parent Showcase and Award Presentation