



JerseySTEM Energy

Bridging Gender, Innovation, and Opportunity Gaps for Middle School Girls in New Jersey

Energy Course — From Concept to Results

SYLLABUS



Lessons

- 1 Electricity Everyday | Electricity's impact on daily life
- 2 Electricity Generation | From Potatoes and Motors
- 3 Solar Energy | How Sunlight keeps your home cool
- 4 Wind Energy | KidWind adventures
- 5 HydroPower | Water cycle and kinetic energy
- 6 Nuclear Energy | Fission, fusion and steam making
- 7 Geothermal and Tidal | From the depth of earth to the waves of the shores
- 8 Biomass and Biofuels | How new plants and animals make energy
- 9 Fossil Fuels | How old plants and animals make energy
- 10 Project & Party | Capstone project- Shark Tank

Instruction
Methodology



Classroom: 12-20 Students
1:4 Instructor to Student Ratio

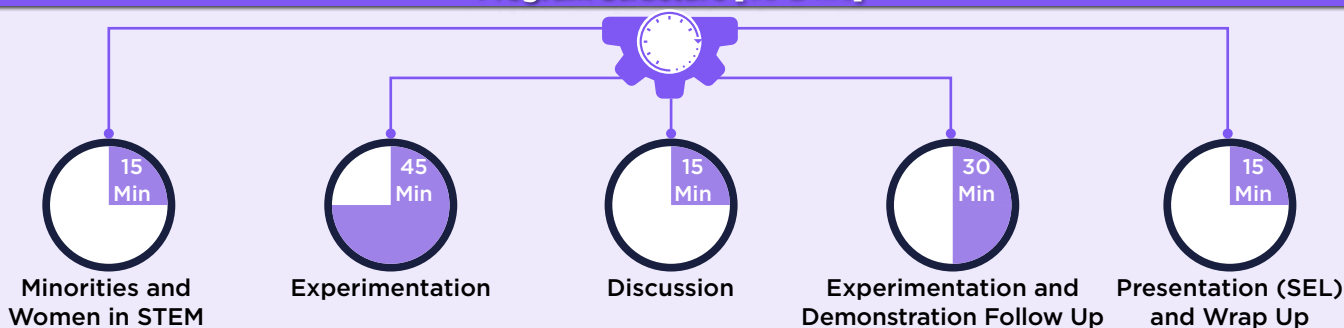


Curricular-Aligned
Field Trips

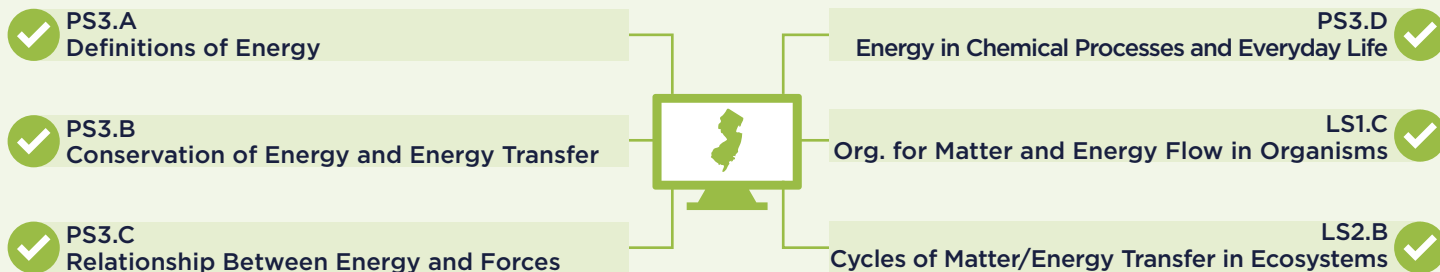


Industry Speakers
Participation

Program Structure [1.5-2 hrs]



New Jersey Science Standards



Let's Connect



JerseySTEM.org



186 Columbia Turnpike #5-160
Florham Park, NJ 07932



Linkedin/JerseySTEM



Facebook/JerseySTEM



Instagram/JerseySTEM