

HORIZON ENERGY CURRICULUM

WHAT IS INCLUDED IN THE HORIZON ENERGY CURRICULUM?

The lab equipment is just the beginning. We've built the Horizon Energy Curriculum to provide teachers with multiple resources for engaging their students.



WHAT IS INCLUDED

TECHNOLOGY

	Fuel Cell Car Science Kit	Solar Hydrogen Education Kit	Wind Energy Education Kit	Vertical Axis Wind Turbine	Salt Water Fuel Cell Science Kit	Super Capacitor Science Kit	Thermal Power Science Kit	Hydro-Wind Education Kit	Ethanol Fuel Cell Science Kit	Electric Mobility Experiment Set	Renewable Energy Education Set	Horizon Energy Box
Ethanol Fuel Cells								✓				✓
Hydrogen Fuel Cells	✓	✓						✓		✓	✓	✓
Salt Water Batteries					✓					✓		✓
Solar Panels	✓	✓								✓	✓	✓
Supercapacitors						✓				✓		✓
Thermoelectrics							✓					✓
Wind Turbines			✓	✓				✓			✓	✓

MATERIALS PROVIDED

Hands-on Lab Activities	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Teacher's Guides	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PBL Units										✓	✓	✓
E-Book	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Teacher Forum	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SIGN UP NOW!

www.horizoncurriculum.com

CONCEPTS COVERED

CHEMISTRY CONCEPTS

	Fuel Cell Car Science Kit	Solar Hydrogen Education Kit	Wind Energy Education Kit	Vertical Axis Wind Turbine	Salt Water Fuel Cell Science Kit	Super Capacitor Science Kit	Thermal Power Science Kit	Hydro-Wind Education Kit	Ethanol Fuel Cell Science Kit	Electric Mobility Experiment Set	Renewable Energy Education Set	Horizon Energy Box
Biofuels									✓			✓
Electrochemistry					✓					✓		✓
Electrolysis	✓	✓						✓		✓	✓	✓
Energy	✓	✓			✓			✓	✓	✓	✓	✓
Ethanol Reactions									✓			✓
Hydrogen Generation	✓	✓			✓			✓		✓	✓	✓
Organic Chemistry									✓			✓
pH									✓			✓
Reaction Rates	✓	✓			✓			✓	✓	✓	✓	✓
Reaction Yield		✓			✓						✓	✓
Reactions	✓				✓			✓	✓	✓	✓	✓
Redox Reactions	✓									✓	✓	✓
Semiconductors		✓									✓	✓
Solution Concentrations					✓					✓		✓
Stoichiometry		✓							✓		✓	✓

PHYSICS CONCEPTS

Angular velocity			✓	✓				✓			✓	✓
Capacitors						✓				✓		✓
Classical Mechanics	✓		✓	✓				✓		✓	✓	✓
Current/Voltage						✓	✓			✓		✓
Efficiency	✓		✓	✓				✓			✓	✓
Electric Charge						✓				✓		✓
Electric Circuits		✓				✓				✓	✓	✓
Energy	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
Generators						✓				✓		✓
Heat							✓					✓
Light		✓										✓
Ohm's Law	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
Parallel Circuits		✓								✓	✓	✓
Power (Electric)	✓	✓	✓	✓		✓		✓		✓	✓	✓
Rotational Mechanics			✓	✓				✓			✓	✓
Series Circuits		✓								✓	✓	✓
Thermal Energy							✓					✓

EARTH SCIENCE CONCEPTS

Climate Change										✓	✓	✓
Renewable Energy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Human Impacts										✓	✓	✓