

2011-2012 WHRO VideoClassroom Preview

Series Title:	Innovation Nation
Curriculum Area:	Science; Social Studies
Grades:	7-12
# of Programs/Length:	6/25:00 minute programs

What will the future look like, and who are those inventing it? Innovation Nation travels the globe to present an exciting, in-depth and visually stunning look at the scientific discoveries shaping our planet and our future. Can we stop or reverse global warming? How close are we to making robots that can perceive and think like humans? Will wind or algae-based biomass one day provide all our energy needs? From cutting-edge research to ingenious backyard inventors on the fringes of science, Innovation Nation offers intimate access to the people who make high science a reality. What inspires them, and how do they bring their ideas to life? Real world demonstrations, lab experiments, and in-depth interviews are complemented by stunning visuals and rich graphics, all of which bring the planet's bravest new ideas to life. This is where tomorrow is born. This is Innovation Nation.

1.) Innovation Nation: CO2

Can we stop, or even reverse global warming? Innovation Nation follows the work of a Nobel Prize winning scientist on the Canadian prairies, an inventor in New York who has designed a unique synthetic tree, and a mega-project in Europe where CO2 instead of being sent skyward, is stored far out of harm's way deep beneath the sea bed.

2.) Innovation Nation: Artificial Intelligence

Can we trust the robots of the future? Innovation Nation explores the fascinating world of Artificial Intelligence, taking us into labs and workshops where innovators teach robots to perceive, think, and move just like human beings.

3.) Innovation Nation: Biofuel

Will we be able to grow all of our fuel in the future? Along with exploring bold new ways of harvesting energy from biomass, Innovation Nation uncovers an amazing biofuel jet truck, a record breaking flying machine, and a unique car made almost entirely of organic matter.

4.) Innovation Nation: Communications

How will we communicate in tomorrow's world? As we become more digitally connected, at ever increasing speeds, new technologies seek to transform the way we interact with one another and our environment. Innovation Nation looks at the brave new world of augmented reality, robotic tele-presence, and technologies that can only exist in a future filled with 4G ultra-broadband.

5.) Innovation Nation: Wind Power (15:00 Preview Segment)

Can the wind provide us with all of our power? Along with cutting-edge wind farms and new turbine designs, Innovation Nation meets renegade inventor Doug Selsam as he builds the world's first flying turbine, a device that may just change our world.

6.) Innovation Nation: Robots At Work

Will robots replace humans? Revolutionary new machines are being designed and built for the workplace of tomorrow. Along with visiting robotic labs around the world, Innovation Nation explores robot-human psychology and tests out an exo-skeleton, a robot that you can strap on and wear.