

Florida NGSS - Sixth Grade

Big Idea 1: The Practice of Science

SC.6.N.1.1

- Insulation
- Hot or Not?
- We're in Hot Water Now
- What's Cooking 2
- The Photovoltaic Panel
- We've Got the Power!
- Good Day Sunshine
- Solar Savings
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

SC.6.N.1.3

- We're in Hot Water Now
- Climate Change

SC.6.N.1.4

- Ice Cube Race
- Insulation
- Hot or Not?
- We're in Hot Water Now
- Rain Machine (Solar Still)
- Solar Still 2
- What's Cooking?
- What's Cooking 2
- Solar Cook-Off
- Solar Powered System
- The Photovoltaic Panel
- Junior Solar Sprint Design Challenge
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

SC.6.N.1.5

- The Photovoltaic Panel

- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body
- Climate Change
- Poster Contest

Big Idea 2: The Characteristics of Scientific Knowledge

SC.6.N.2.1

- The Age of Oil

SC.6.N.2.2

- The Age of Oil
- Climate Change
- Poster Contest

SC.6.N.2.3

- The Age of Oil
- Climate Change
- Poster Contest

Big Idea 3: The Role of Theories, Laws, Hypotheses, and Models

SC.6.N.3.4

- We're in Hot Water Now
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

Big Idea 6: Earth Structures

SC.6.E.6.1

- The Age of Oil
- Climate Change

Big Idea 7: Earth Systems and Patterns

SC.6.E.7.1

- Electromagnetic Spectrum
- Hot or Not?
- We're in Hot Water Now
- Rain Machine (Solar Still)
- Solar Still 2
- What's Cooking?
- What's Cooking 2
- Solar Cook-Off
- Triangle Game

SC.6.E.7.5

- K-W-L

SC.6.E.7.6

- Climate Change

SC.6.E.7.8

- K-W-L
- Solar Still 2

Big Idea 11: Energy Transfer and Transformations

SC.6.P.11.1

- Energy Transfer Machine
- Junior Solar Sprint Design Challenge

Big Idea 12: Motion of Objects

SC.6.P.12.1

- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

Big Idea 13: Forces and Changes in Motion

SC6.P.13.1

- Electromagnetic Spectrum
- Energy Transfer Machine
- We're in Hot Water Now
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

SC6.P.13.2

- Energy Transfer Machine

SC6.P.13.3

- Energy Transfer Machine

Florida NGSS - Seventh Grade

Big Idea 1: The Practice of Science

SC.7.N.1.1

- Insulation
- Hot or Not?
- We're in Hot Water Now
- What's Cooking 2
- The Photovoltaic Panel
- We've Got the Power!
- Good Day Sunshine
- Solar Savings
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

SC.7.N.1.2

- Hot or Not?

SC.7.N.1.3

- Junior Solar Sprint Design Challenge
- Climate Change

SC.7.N.1.4

- Hot or Not?
- We're in Hot Water Now
- What's Cooking 2

SC.7.N.1.6

- Climate Change

SC.7.N.1.7

- The Age of Oil
- Climate Change

Big Idea 2: The Characteristics of Scientific Knowledge

SC.7.N.2.1

- The Age of Oil
- Climate Change

Big Idea 3: The Role of Theories, Laws, Hypotheses and Models

SC.7.N.3.2

- We're in Hot Water Now

Big Idea 6: Earth Structures

SC.7.E.6.2

- The Age of Oil
- Climate Change

SC.7.E.6.4

- Climate Change

SC.7.E.6.6

- SunSmart Schools
- World Population
- The Age of Oil
- Climate Change
- Triangle Game

Big Idea 10: Forms of Energy

SC.7.P.10.1

- K-W-L
- Electromagnetic Spectrum
- Hot or Not?
- We're in Hot Water Now
- What's Cooking?
- Solar Cook-Off
- The Photovoltaic Panel
- Junior Solar Sprint - The Photovoltaic Panel
- Triangle Game

SC.7.P.10.2

- Hot or Not?

- We're in Hot Water Now
- What's Cooking?
- Solar Cook-Off
- Triangle Game

SC.7.P.10.3

- Electromagnetic Spectrum

Big Idea 11: Energy Transfer and Transformations

SC.7.P.11.1

- Ice Cube Race
- Insulation
- Hot or Not?
- We're in Hot Water Now
- Rain Machine (Solar Still)
- Solar Still 2
- What's Cooking?
- What's Cooking 2
- Solar Cook-Off
- Triangle Game

SC.7.P.11.2

- Energy Transfer Machine
- Ice Cube Race
- Hot or Not?
- We're in Hot Water Now
- Rain Machine (Solar Still)
- Solar Still 2
- What's Cooking?
- What's Cooking 2
- Solar Cook-Off
- Solar Powered System
- The Photovoltaic Panel
- SunSmart Schools
- We've Got the Power!
- Good Day Sunshine
- \$olar \$avings
- Junior Solar Sprint Design Challenge
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body
- The Age of Oil
- Climate Change
- Triangle Game

SC.7.P.11.3

- Energy Transfer Machine
- Climate Change

SC.7.P.11.4

- We're in Hot Water Now
- What's Cooking?
- Solar Cook-Off

Big Idea 17: Interdependence

SC.7.L.17.3

- World Population
- The Age of Oil

Florida NGSS - Eighth Grade

Big Idea 1: The Practice of Science

SC.8.N.1.1

- Sun Misconceptions
- Insulation
- Hot or Not?
- We're in Hot Water Now
- What's Cooking 2
- The Photovoltaic Panel
- We've Got the Power!
- Good Day Sunshine
- Solar Savings
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

SC.8.N.1.2

- The Photovoltaic Panel
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

SC.8.N.1.5

- Climate Change

SC.8.N.1.6

- The Photovoltaic Panel
- Junior Solar Sprint - The Photovoltaic Panel
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body
- Climate Change

Big Idea 2: The Characteristics of Scientific Knowledge

SC.8.N.2.1

- Sun Misconceptions
- K-W-L

Big Idea 3: The Role of Theories, Laws, Hypotheses, and Models

SC.8.N.3.1

- We're in Hot Water Now
- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train & Transmission
- Junior Solar Sprint - The Body

Big Idea 4: Science and Society

SC.8.N.4.1

- The Age of Oil
- Climate Change
- Poster Contest

SC.8.N.4.2

- Climate Change
- Poster Contest

Big Idea 5: Earth in Space and Time

SC.8.E.5.1

- K-W-L

SC.8.E.5.5

- K-W-L

SC.8.E.5.6

- K-W-L

SC.8.E.5.7

- K-W-L

SC.8.E.5.9

- K-W-L

SC.8.E.5.11

- K-W-L
- Electromagnetic Spectrum
- Hot or Not?
- Triangle Game

Big Idea 8: Properties of Matter

SC.8.P.8.4

- Insulation
- What's Cooking 2

Big Idea 18: Matter and Energy Transformations

SC.8.L.18.1

- The Age of Oil

SC.8.L.18.3

- Climate Change

National NGSS - Sixth to Eighth Grade

Motion and Stability: Forces and Interactions

MS-PS2-1

- Energy Transfer Machine

MS-PS2-3

- The Photovoltaic Panel
- SunSmart Schools
- We've Got the Power!
- Good Day Sunshine!
- Junior Solar Sprint - The Photovoltaic Panel

Energy

MS-PS3-1

- Junior Solar Sprint - Wheels, Axles and Bearings

MS-PS3-3

- Ice Cube Race
- Insulation
- We're in Hot Water Now!
- Solar Still 2
- What's Cooking
- Solar Cook-Off

MS-PS3-4

- Ice Cube Race
- Insulation
- Rain Machine (Solar Still)
- What's Cooking 2

MS-PS3-5

- Energy Transfer Machine

Earth's Place in the Universe

MS-ESS1-1

- Sun Misconceptions

MS-ESS1-4

- The Age of Oil
- Climate Change

Earth's Systems

MS-ESS2-4

- Rain Machine (Solar Still)
- Solar Still 2

Earth and Human Activity

MS-ESS3-1

- The Age of Oil
- Climate Change

MS-ESS3-3

- Kilowatt Ours

MSS-ESS3-4

- K-W-L
- World Population
- The Age of Oil
- Climate Change
- Kilowatt Ours

MS-ESS3-5

- K-W-L
- Hot or Not?
- The Age of Oil
- Climate Change

Engineering Design

MS-ETS1-1

- Energy Transfer Machine
- Solar Still 2
- Solar Cook-Off
- Junior Solar Sprint Design Challenge
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MS-ETS1-2

- Energy Transfer Machine
- Insulation
- What's Cooking
- Solar Cook-Off
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MS-ETS1-3

- Insulation
- We're In Hot Water Now!
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MS-ETS1-4

- Junior Solar Sprint Design Challenge
- Junior Solar Sprint - The Photovoltaic Panel

- Junior Solar Sprint - The Chassis
- Junior Solar Sprint - Wheels, Axles & Bearings
- Junior Solar Sprint - Drive Train and Transmission
- Junior Solar Sprint - The Body