



NGSS Middle School New Jersey Science Standards Crosswalk

Inq-ITS Virtual Lab	Disciplinary Core Ideas	Science & Engineering Practices	Crosscutting Concepts
General Inquiry			
Flower		1-8	1,2, 7
Ramp		1-8	1-5,7
Physical Science			
Collisions: Introduction	<u>6th- PS2-1</u>	1-8	1-5
Collisions: Advanced	PS2-1	1-8	1-5
Collisions: Inelastic	PS2-1	1-8	1-5
Forces & Motion: Introduction	<u>6th- PS2-2</u>	1-8	1-5,7
Forces & Motion: Different Planetary Bodies	<u>6th- PS2-4</u>	1-8	1-5,7
Gravity & Mass: Introduction	<u>6th- PS2-4</u>	1-8	1-4
Orbit Distance & Gravity	<u>6th- PS2-4</u>	1-8	1-4
Density	<u>7th- PS1-2</u>	1-8	1-4
Phase Change	<u>7th- PS1-4</u>	1-8	1-7
Chemical Reactions	<u>7th-PS1-2</u>	1-8	1-7
Velocity: Free Fall	<u>8th- PS3-1</u>	1-8	1-5,7
Velocity & Air Resistance	<u>8th- PS3-1</u>	1-8	1-7
Energy: Free Fall	<u>8th- PS3-2 & 3-5</u>	1-8	1-5,7
Energy & Air Resistance	<u>8th- PS3-2 & 3-5</u>	1-8	1-7
Waves: Introduction	<u>8th- PS4-1</u>	1-8	1-5,7
Waves: Advanced	<u>8th- PS4-2</u>	1-8	1-5,7
Waves & Thermal Energy	<u>8th- PS1-4 & 4-2</u>	1-8	1-5,7
Life Science			
Predation	<u>6th- LS2-2</u>	1-2,4,6-8	1-7
Cell: Animal - Energy & Storage	<u>7th- LS 1-2</u>	1-2,4,6-8	1-5,7
Cell: Animal - Function	<u>7th- LS 1-2</u>	1-2,4,6-8	1-4,6,7

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Cell: Plant - Energy & Storage	7th- LS 1-2	1-2,4,6-8	1-5,7
Cell: Plant - Function	7th- LS 1-2	1-2,4,6-8	1-4,6,7
Genetics	7th- LS3-2	1-8	1,2,6,7
Diversity of Traits	8th- LS4-4	1-8	1,2,4,6,7
Natural Selection	8th- LS4-6	1-8	1,2,4,6,7
Earth Science			
Lunar Phases	6th- ESS1-1	1-8	1-4
Seasons: Introduction	6th- ESS1-1	1-8	1-4
Seasons: Earth has No Tilt!	6th- ESS1-1	1-8	1-4
Eclipses	6th- ESS1-1	1-8	1-4
Convergent	7th- ESS2-1&2	1-8	1,2,4,6,7
Divergent	7th- ESS2-1&2	1-8	1,2,4,5,7

Science & Engineering Practices:

1. Asking Questions & Defining Problems
2. Developing & Using Models
3. Planning & Carrying Out Investigations
4. Analyzing & Interpreting Data
5. Using Mathematics & Computational Thinking
6. Constructing Explanations & Designing Solutions
7. Engaging in Argument from Evidence
8. Obtaining, Evaluating, and Communicating Information

Crosscutting Concepts:

1. Patterns
2. Cause & effect
3. Scale, proportion, & quantity
4. Systems & system models
5. Energy & matter
6. Structure & function
7. Stability & change

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