

### General Inquiry

Inq-ITS Virtual Lab	Disciplinary Core Ideas	Science & Engineering Practices	Crosscutting Concepts
Flower		1-8	1,2,7
Ramp	<a href="#">HS PS 2-1</a>	1-8	1-5,7

### Chemistry

Density	<a href="#">HS PS 1-2</a>	1-8	1,2,6
Phase Change	<a href="#">HS PS 1-3, 1-5</a>	1-8	1-7

### Physics

Velocity: Free Fall	<a href="#">HS PS 2-1</a>	1-8	1-5,7
Velocity & Air Resistance	<a href="#">HS PS 2-1</a>	1-8	1-7
Motion & Forces: Introduction	<a href="#">HS PS 2-1</a>	1-8	1-5,7
Forces & Motion: Different Planetary Bodies	<a href="#">HS PS 2-1</a>	1-8	1-5,7
Collisions: Introduction	<a href="#">HS PS 2-3</a>	1-8	1,2,3,4,5
Collisions: Advanced	<a href="#">HS PS 2-3</a>	1-8	1,2,3,4,5
Collisions: Inelastic	<a href="#">HS PS 2-3</a>	1-8	1,2,3,4,5
Gravity & Mass: Introduction	<a href="#">HS PS 2-4, ESS 1-4</a>	1-8	1-4
Orbit Distance & Gravity	<a href="#">HS PS 2-4, ESS 1-4</a>	1-8	1-4
Energy: Free Fall	<a href="#">HS PS 3-1, 3-2</a>	1-8	1-5,7
Energy & Air Resistance	<a href="#">HS PS 3-1, 3-2</a>	1-8	1-7
Waves on a String	<a href="#">HS PS 4-1</a>	1-8	1-4,7
Waves in a Drum	<a href="#">HS PS 4-1</a>	1-8	1-4,7
Waves & Thermal Energy	<a href="#">HS PS 4-1</a>	1-8	1-7

## Biology

Inq-ITS Virtual Lab	Disciplinary Core Ideas	Science & Engineering Practices	Crosscutting Concepts
Cell: Plant - Energy & Storage	<a href="#">HS LS 1-5, 2-5</a>	1-2,4,6-8	1,2,3,4,5,7
Cell: Plant - Function	<a href="#">HS LS 1-5, 2-5</a>	1-2,4,6-8	1,2,3,4,6,7
Cell: Animal - Energy & Storage	<a href="#">HS LS 1-7, 2-5</a>	1-2,4,6-8	1,2,3,4,5,7
Cell: Animal - Function	<a href="#">HS LS 1-7, 2-5</a>	1-2,4,6-8	1,2,3,4,6,7
Predation	<a href="#">HS LS 2-1, 2-2, 2-6</a>	1-2,4,6-8	1-7
Genetics	<a href="#">HS LS 2-2, 3-1, 3-2</a>	1-8	1,2,6,7
Diversity of Traits	<a href="#">HS LS 2-2, 3-2, 3-3, 4-2</a>	1-2,4,6-8	1,2,4,6,7
Natural Selection	<a href="#">HS LS 2-2, 2-6, 3-3, 4-2, 4-3, 4-5 4-4</a>	1-2,4,6-8	1,2,4,6,7

## Earth Science (Physics or Capstone)

Lunar Phases	<a href="#">ESS 1-4</a>	1-8	1,2,3,4
Eclipses	<a href="#">ESS 1-4</a>	1-8	1,2,3,4
Convergent	<a href="#">ESS 1-5, 2-1</a>	1-8	1,2,4,6,7
Divergent	<a href="#">ESS 1-5, 2-1, 2-3</a>	1-8	1,2,4,5,7
Seasons: Introduction	<a href="#">ESS1-1</a>	1-8	1-4
Seasons: Earth has No Tilt!	<a href="#">ESS1-1</a>	1-8	1-4

### 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

Dr. Janice Gobert. Copyright © 2017-20. All Rights Reserved. <http://www.inqits.com>

\* [Next Generation Science Standards](#) and NGSS are registered trademarks of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.