

Inq-ITS Virtual Labs, NGSS

Inq-ITS Virtual Lab	Disciplinary Core Ideas	Science & Engineering Practices	Crosscutting Concepts
General Inquiry			
Tutorials 1-3 (Flower)		1-8	1,2, 7
Advanced Tutorials 1-3 (Ramp)		1-8	1-5,7
Physical Science			
Phase Change	PS1-4	1-8	1-7
Energy: Free Fall	PS3-2 and 3-5	1-8	1-5,7
Energy & Air Resistance	PS3-2 and 3-5	1-8	1-7
Velocity: Free Fall	PS3-1	1-8	1-5,7
Velocity & Air Resistance	PS3-1	1-8	1-7
Density	PS1-2	1-8	1-4
Gravity & Mass: Introduction	PS2-4	1-8	1-4
Orbit Distance & Gravity	PS2-4	1-8	1-4
Collisions: Introduction	PS2-1	1-8	1-5
Collisions: Advanced	PS2-1	1-8	1-5
Collisions: Inelastic	PS2-1	1-8	1-5
Forces & Motion: Introduction	PS2-2	1-8	1-5,7
Forces & Motion: Different Planetary Bodies	PS2-4	1-8	1-5,7
Chemical Reactions	PS1-2 PS3-4	1-8	1-7

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Life Science			
Cell: Animal - Energy & Storage	LS 1-2	1-2,4,6-8	1-5,7
Cell: Animal - Function	LS 1-2	1-2,4,6-8	1-4,6,7
Cell: Plant - Energy & Storage	LS 1-2	1-2,4,6-8	1-5,7
Cell: Plant - Function	LS 1-2	1-2,4,6-8	1-4,6,7
Diversity of Traits	LS4-4	1-8	1,2,4,6,7
Natural Selection	LS4-6	1-8	1,2,4,6,7
Predation	LS2-2	1-2,4,6-8	1-7
Genetics	LS3-2	1-8	1,2,6,7
Earth Science			
Lunar Phases	ESS1-1	1-8	1-4
Seasons: Introduction	ESS1-1	1-8	1-4
Seasons: Earth has No Tilt!	ESS1-1	1-8	1-4
Eclipses	ESS1-1	1-8	1-4
Convergent	ESS2-1&2	1-8	1,2,4,6,7
Divergent	ESS2-1&2	1-8	1,2,4,5,7
Human Activity	ESS3-4&5	1-8	1,2,4,7

Crosscutting Concepts:

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

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