

ADI Online Investigations Alignment with Standards

High School 40 options

Biology

Topic	State Standards		
	Texas (TEKS)	Georgia (GSE)	California (NGSS)
Population Growth	11B	SB5.a	LS2-1, LS2-6
Predator-Prey Population Size Relationships	12A	SB5.a	LS2-1, LS2-2
Natural Selection	7D, 7E	SB6.e	LS4-2, LS4-3
Gene Mutations	6E	SB2.a	LS1-1
Speciation	7E	SB6.a	LS4-5
Evolution	7A	SB4.b, SB6.c	LS4-1
Models of inheritance	6F	SB3.b	-
Photosynthesis	9B	SB1.e	LS1-5, LS2-5
Classification of Unknown Organisms	4A, 4C, 8B	SB4.a, SB4.c	-
Fur Color Inheritance in Deer Mice	6F	SB3.b	LS3-3
Cell Cycle	5A	SB1.b	LS1-4
Kelp Forests in the Aleutian Islands	12E	SB5.a, SB5.c	LS2-2
Total	12	12	10

Chemistry

Topic	State Standards		
	Texas (TEKS)	Georgia (GSE)	California (NGSS)
Bond Character and Polarity	7C	SC2.d	-
Molecular Shapes	7E	-	-
Molarity	10C	SC5.d	-
Gas Laws	9A	SC5.c	-
States of Matter	4A, 4C	-	-
Acids and Bases	10G, 10F	SC6.f, SC6.h	-
Reaction Rates	8F	SC4.a	PS1-5
Chemical Equilibrium	-	SC4.d	PS1-6
Periodic Trends	5C	SC1.f	PS1-1
Thermal Decomposition of Sodium Bicarbonate	8G	SC3.c, SC3.d	-
Heat of Solution	11C	SC2.g, SC5.a	PS1-4
Total	10	9	4

Earth-Space Science

Topic	State Standards		
	Texas (TEKS)	Georgia (GSE)	California (NGSS)
Orbits	-	-	ESS1-4
Plate interactions	10C, 10E	SES2.b	-
Geological features	11B	SES2.c	ESS2-2
Differences in Climate	-	SES5.c, SES5.d	-
Climate change	13D	SES5.f	ESS2-2, ESS2-4
Lowering carbon emissions	-	SES6.d	ESS3-5
Mines	12A, 12D	SES6.c	ESS3-3
Ice Cores	15B	SES6.d	-
Fossil Record	8B	SES4.c	-
Total	6	8	5

Physics

Topic	State Standards		
	Texas (TEKS)	Georgia (GSE)	California (NGSS)
Falling Objects and Air Resistance	4B, 4D	SP2.a	PS2-1
Projectile motion	4C	SP1.d	PS2-1
Force, Mass, and Acceleration	4D	SP2.a	PS2-2
Simple harmonic motion: Pendulums	6B, 6D, 7A	-	-
Simple harmonic motion: Springs	6B, 6D, 7A	SP2.c	-
Electric fields	5C	SP5.a	PS2-4
Circuits	5F	SP5.d	-
Magnetic fields	-	SP5.e	PS2-5
Total	7	7	5

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Middle School 29 Options

Topic	State Standards								
	Texas (TEKS)			Georgia (GSE)			California (NGSS)		
	6 th	7 th	8 th	6 th	7 th	8 th	6 th	7 th	8 th
Life Science									
Cell structure	12A, B	12D	-	-	S7L1.b	-	LS1-1	-	-
Population growth	-	-	11A	-	S7L4.a	-	-	LS2-1	-
Food webs	-	5B	-	-	S7L4.b	-	-	LS2-3	-
Predator-prey relationships	-	-	-	-	S7L4.a	-	-	LS2-4	-
Adaptation of populations	-	10A	-	-	S7L5.a	-	LS1-4	-	LS4-4
Gene mutations	-	-	-	-	-	-	-	-	LS3-1
Environment impact on traits	-	11B	-	-	S7L4.c	-	LS1-5	-	-
Body systems	-	12B	-	-	S7L2.c	-	LS1-3	-	-
Fossil Record	-	-	-	-	S7L4.a	-	-	-	LS4-1
Embryos	-	-	-	-	-	-	-	-	LS4-3
Physical Science									
Thermal energy and matter	9A	6	-	-	-	S8P1.b	PS3-4	PS1-4	-
Gravitation Force	-	-	-	-	-	S8P5.a	-	-	PS2-4
Force and Motion	8B	-	6C	-	-	S8P3.b	-	-	PS3-1
Mass and Motion	8C	-	6C	-	-	S8P3.c	-	-	PS2-2
Unbalanced forces	8B	-	6A	-	-	S8P3.b	-	-	-
Energy Transformations	8A	-	-	-	-	S8P2.b	PS3-5	-	PS3-2
Electrical Energy	9C	-	-	-	-	S8P2.c	-	-	PS2-3
Reflection and Refraction	-	-	-	-	-	S8P4.d	-	-	-
Wave Properties	-	-	-	-	-	S8P4.f	-	-	PS4-1
Periodic Trends	-	-	5C	-	-	S8P1.b	-	-	-
Earth-Space Science									
Moon Phases	-	-	7B	S6E2.a	-	-	-	-	ESS1-1
Seasons	-	-	7A	S6E2.b	-	-	-	-	-
Orbits	-	-	-	S6E1.d	-	-	-	-	ESS1-2
Plate interactions	10D	-	-	S6E5.f	-	-	-	-	-
Geological features	-	-	9B	-	-	-	-	ESS2-2	-
Regional climate	-	-	-	S6E4.c	-	-	ESS2-6	-	-
Climate change	-	-	-	S6E6.c	-	-	ESS3-5	-	-
Air Masses and Weather	-	-	10B	S6E4.d	-	-	ESS2-5	-	-
Predicting Hurricanes	-	-	10C	S6E4.e	-	-	-	ESS2-2	-
Total	8	6	10	8	8	10	9	6	12

ADI Online Investigations Alignment with Standards

Elementary 20 options

Topic	State Standards						
	Texas (TEKS)		Georgia (GSE)		California (NGSS)		
	4 th	5 th	4 th	5 th	3 rd	4 th	5 th
Life Science							
Life cycles	10C	-	-	-	3-LS1-1	-	-
Inherited traits	-	10B	-	S5L2.b	3-LS3-1	-	-
Traits and the environment	10A	10A	-	-	-	4-LS1-1	-
Energy in ecosystems	9A, 9B	9B	S4L1.b	-	-	-	5-PS1-3
Life in groups	10B	9A	-	-	3-LS2-4	-	-
Cell Structure	-	-	-	S5L3.c	-	-	-
Physical Science							
Circuits	6A, 6C	6B	-	S5P2.b	-	4-PS3-2	-
Patterns in motion	-	-	S4P3.b	-	3-PS2-2	-	-
Balanced forces	6D	6D	S4P3.a	-	3-PS2-1	-	-
Light and reflection	-	6C	S4P1a, b	-	-	4-PS4-2	-
Speed and Energy	-	-	-	-	-	4-PS3-1	-
Chemical Reactions	-	-	-	-	-	-	5-PS1-4
States of Matter and Weight	-	-	-	-	-	-	5-PS1-2
Sates of Matter	5A	-	-	S5P1.b	-	-	-
Conductivity	6B	5A	-	S5P1.b	-	-	-
Earth-Space Science							
Day and night	-	8C	S4E2.b	-	-	-	5-ESS1-1
Shadows	8C	-	-	-	-	-	5-ESS1-1
Waves	-	-	-	-	-	4-PS4-1	-
Weather	8A	-	S4E4.b	-	3-ESS2-2	-	-
Fossils	-	9D	-	-	-	4-ESS1-1	-
Total	10	10	6	5	6	6	5