

**Next Generation Science Standards (NGSS) Alignment
to Skillastics® STEM Activity Kit
January 2018**

EARTH SPACE SCIENCE	
ESS1 Earth's Place in the Universe	
ESS1.A The universe and its stars	T3, T11, T27
ESS1.B Earth and the solar system	S8, T11, T22, T27, E4
ESS1.C The history of planet Earth	S20, S30, T3
ESS2 Earth's Systems	
ESS2.A Earth materials and systems	S1, E23
ESS2.B Plate tectonics and large-scale system interactions	S1, S2
ESS2.C The roles of water in Earth's surface processes	S20, S30, E16
ESS2.D Weather and climate	S5
ESS2.E Biogeology	
ESS3 Earth and Human Activity	
ESS3.A Natural Resources	T29
ESS3.B Natural hazards	
ESS3.C Human impacts on Earth Systems	S2
ESS3.D Global climate change	
LIFE SCIENCE	
LS1 From Molecules to Organisms: Structures and Processes	
LS1.A Structure and function	S6, S7, S9, S10, S12, S13, S14, S19, S22, S24, S25, S26
LS1.B Growth and development of organisms	S6, S9, S10, S14, S16, S19, S22, S24, S25, S26, T18

Skillastics® Question Cards

S = Science Question, T = Technology Question, E = Engineering Question

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LS1.C Organization for matter and energy flow in organisms	S19, S21, S27, T18
LS1.D Information processing	S15, T12
LS2 Ecosystems: Interaction, Energy and Dynamics	
LS2.A Interdependent relationships in ecosystems	S9
LS2.B Cycles of matter and energy transfer in ecosystems	
LS2.C Ecosystem dynamics, functioning and resilience	S11
LS2.D Social interactions and group behavior	S11
LS3 Heredity: Inheritance and Variation of Traits	
LS3.A Inheritance of traits	S12, S13, S14
LS3.B Variation of traits	S12, S13, S14
LS4 Biological Evolution: Unity and Diversity	
LS4.A Evidence of common ancestry and diversity	
LS4.B Natural selection	
LS4.C Adaptation	S16, T25, T26
LS4.D Biodiversity and humans	
PHYSICAL SCIENCE	
PS1 Matter and Its Interactions	
PS1.A Structure of matter	S17, S28, S29, E10
PS1.B Chemical reactions	S17, S29, E13
PS1.C Nuclear Process	E21

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PS2 Motion and Stability: Forces and Interactions	
PS2.A Forces and motion	S18, T5, T8, T14, E3, E9, E11, E19
PS2.B Types of interactions	S18, T8, E3, E9, E19, E27, E28
PS2.C Stability & instability in physical systems	Not Required, T8
PS3 Energy	
PS3.A Definitions of energy	S3, S4, T9, E2, E8, E13, E18, E24, E5, E26, E30
PS3.B Conservation of energy and energy transfer	S3, S4, T13, T16, T25, E2, E8, E18, E22, E24, E30
PS3.C Relationship between energy and forces	T9, T21
PS3.D Energy in chemical processes and everyday life	T24
PS4 Waves and Their Applications in Technologies for Information Transfer	
PS4.A Wave properties	T4, E8
PS4.B Electromagnetic radiation	S23
PS4.C Information technologies and instrumentation	T6, T13, T15, T20, T28, T30, E8
ENGINEERING TECHNOLOGY & APPLICATION OF SCIENCE	
ETS1 Engineering Design	
ETS1.A Definition of engineering problem	T2, T6, T7, T11, T15, T17, T20, E1, E5, E7, E12, E14, E15, E18, E29
ETS1.B Developing possible solutions	T1, T4, T9, T12, T14, T16, T18, T24, T25, E6, E7, E17
ETS1.C Optimizing design solutions	T5, T10, T13, T19, T23, T26, T27, T28, T29, T30, E20
Skillastics® Set 4 STEM Questions, "MATH" are aligned with National Math Standards, Grades 3-8	

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