

Earth & Space Product Matrix

2017-2020

The Earth & Space Product Matrix shows the alignment of NISE Network resources to the three principles of the Earth & Space Learning Framework as well as the six key science content ideas of the Earth & Space Content Framework, and includes the year each was added to

the Explore Science: Earth & Space Toolkits. The hands-on activities are listed in order of toolkit subcategories: Exploring Earth, Exploring Science Practices, Exploring the Solar System, and Exploring the Universe.

	PRINCIPLES			TOOLKIT YEAR				CONTENT AREA					
	PHENOMENA	PROCESS	PARTICIPATE	2017	2018	2019	2020	SUN	EARTH	PLANETS	UNIVERSE	SOCIETY	FORCES + ENERGY
EXPLORING EARTH													
Exploring Earth: Bear's Shadow*	X			X			X	X	X				
Exploring Earth: Investigating Clouds	X	X	X	X			X		X			X	
Exploring Earth: Land Cover	X	X	X			X			X			X	X
Exploring Earth: Paper Mountains	X	X	X		X				X			X	X
Exploring Earth: Rising Sea		X	X	X		X			X			X	
Exploring Earth: Temperature Mapping	X	X				X		X	X			X	X
EXPLORING SCIENCE PRACTICES													
Exploring Science Practices: Early Explorations*	X	X					X		X				
Exploring Science Practices: Measure Up*	X	X					X		X				
EXPLORING THE SOLAR SYSTEM													
Exploring the Solar System: Asteroid Mining	X	X	X				X			X		X	
Exploring the Solar System: Big Sun, Small Moon	X	X		X				X	X				
Exploring the Solar System: Craters	X	X			X		X		X	X			X
Exploring the Solar System: Design, Build, Test		X	X				X					X	X
Exploring the Solar System: Hide and Seek Moon*	X	X	X		X	X			X			X	
Exploring the Solar System: Magnetic Fields	X	X			X			X	X	X			X
Exploring the Solar System: Mars Rovers		X	X		X					X		X	
Exploring the Solar System: Mission to Space		X	X				X	X	X	X	X	X	
Exploring the Solar System: Moonquakes	X	X					X		X	X			X
Exploring the Solar System: Observe the Moon	X	X	X				X	X	X				
Exploring the Solar System: Observe the Sun	X	X	X			X		X	X				X
Exploring the Solar System: Pocket Solar System		X		X		X				X		X	
Exploring the Solar System: Solar Eclipse	X	X		X				X	X				
Exploring the Solar System: Stomp Rockets		X	X		X	X						X	X
Exploring the Solar System: Story Blocks*		X	X				X					X	
EXPLORING THE UNIVERSE													
Exploring the Universe: Exoplanet Transits	X	X			X					X	X	X	X
Exploring the Universe: Expanding Universe	X	X				X					X		X
Exploring the Universe: Filtered Light	X	X			X	X					X		X
Exploring the Universe: Ice Orbs	X	X		X						X			
Exploring the Universe: Imagining Life		X	X	X					X	X		X	
Exploring the Universe: Nebula Spin Art	X	X					X				X		X
Exploring the Universe: Objects in Motion	X	X			X				X	X	X		X
Exploring the Universe: Orbiting Objects	X	X		X			X	X		X	X		X
Exploring the Universe: Pack a Space Telescope	X	X			X						X	X	X
Exploring the Universe: Space Guess Quest Game		X				X	X			X	X		
Exploring the Universe: Star Formation	X	X					X				X		X
Exploring the Universe: Static Electricity	X	X				X			X	X			X

* These activities were specially designed for young learners.

Earth & Space Product Matrix 2021-2023

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	PRINCIPLES			PRODUCT			CONTENT AREA					
	PHENOMENA	PROCESS	PARTICIPATE	TOOLKIT	APPS		SUN	EARTH	PLANETS	UNIVERSE	SOCIETY	FORCES + ENERGY
				2023	DIY SUN SCIENCE	DIY SOLAR SYSTEM						
ACTIVITIES												
Breath of Fresh Air	X	X		X		X		X			X	X
Build a Moon Base Camp		X	X	X		X		X	X		X	
Space Souvenir			X	X		X					X	
Water Recycler	X	X		X		X		X			X	X
Space Garden	X	X	X	X		X		X			X	X
Space Food	X	X				X		X			X	
Solar System Trek		X				X	X	X	X			
Pack Your Bags		X	X			X					X	
Ice Orbs	X	X				X			X			
Spacesuit Selfie			X			X					X	
Mars Rover Control		X				X			X		X	
In or Out Game		X				X	X	X	X	X		
Augmented Reality Planet Walk	X	X			X		X	X	X			
Shadows on the Moon	X	X	X		X		X	X				X
Color Your Own Aurora		X	X				X	X				
EXHIBITS												
Build a Human Habitat on Mars Exhibit		X	X						X		X	
<i>Sun, Earth, Universe</i> Exhibition	X	X	X				X	X	X	X	X	X
EXPERIENCE												
Moon Adventure Game	X	X	X					X	X		X	X