Forward to the Moon with Artemis Explorer Activities
Alignment to Common Core Mathematics, English Language Arts Standards and Computer Science Standards

1 Star Activities / Grades K-2

Common Core Mathematics Standards	Activity Name	Page/s
K.Geometry.B.4 Analyze, compare, create, and compose shapes. **1.Geometry.A.1** Distinguish between defining attributes.	Lunar Exploration	1
K.Counting & Cardinality.A.1 Count to 100 by ones and by tens.	Command and Service Module	2
Math Practice 1 Make sense of problems and persevere in solving them.	Space Explorer Puzzle	4
K.Geometry.B.4 Analyze, compare, create, and compose shapes.	Living and Working in Space	14-15
Math Practice 7 Look for and make use of structure.	Complete the Pattern	18
K.Geometry.B.4 Analyze, compare, create, and compose shapes. **2.Geometry.A.1** Recognize and draw shapes having specified attributes.	Satellites, Rovers, and Landers	32

Common Core English Language Arts Standards	Activity Name	Page/s
Literacy Language 2.6. Use words and phrases acqired through conversations, reading, and being read to, and responding to texts, including using adjectives and adverbs to describe.	The Artemis Generation	2
Literacy.Reading Foundational Skills.K.1.D Recognize and name all upper- and lowercase letters of the alphabet.	Alphabet Path	30-31

2 Star Activities / Grades 3-5

Common Core Mathematics Standards	Activity Name	Page/s
3.Operations & Algebraic Thinking.3 Use multiplicaton and division within 100 to solve word problems.	Providing Power for the Space Launch System	10-11
Math Practice 1 Make sense of problems and persevere in solving them.	Sudoko	25
CCSS.Math.Content.5.OA.A.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	Two Moons of Mars	33
Math Practice 7 Look for and make use of structure. Mathematically proficient students look closely to discern a pattern or structure.	Complete the Pattern	37

Common Core English Language Arts Standards	Activity Name	Page/s
Literacy. Reading Literature.3.4 Interpret words and phrases as they are used in a text.	NASA's Next Human Spacecraft	8-9
Literacy Language. 3.2.E Use conventional spelling for high-frequency and other studied words. **Literacy Language.4.2.D** Spell grade-appropriate words correctly. **Literacy Language.5.2.D** Spell grade-appropriate words correctly.	Make New Words - Propulsion	12
Reading Literature.4.5 Refer to the structural elements of poems.	Space Haiku	19
Literacy Language 3.2.E Use conventional spelling for high-frequency and other studied words. **Literacy Language.L.4.2.D and 5.2.D** Spell grade-appropriate words correctly.	Moon to Mars Word Search	26
College and Career Readiness Achor Standards for Writing 3 Write narratives to develop real or imaged experiences or events using effective techniques, well-chosen details and well-structured event sequences.	Create Your Own Stanza - *Moving Forward to the Moon*	40

3 Star Activities / Grades 6-7		
Common Core Mathematics Standards	**Activity Name**	**Page/s**
Math Practice 1 Make sense of problems and persevere in solving them.	Continuous Path	5
6.Expressions and Equations.2c. Perform arithmetic operations in the conventional order when there are no parentheses to specify a particular order (Order of Operations).	Two Moons of Mars	33
7.Geometry.A.1 Solve problems involving scale drawings of geometric figures.	How Many Triangles	17
7.Geometry.A.1 Solve problems involving scale drawings of geometric figures. **7.Geometry.B.6** Solve real-world and mathematical problems involving two-dimensional objects composed of triangles, quadrilaterals, polygons, cubes and right prisms.	Lunar Orbit Gateway	22
Math Practice 1 Make sense of problems and persevere in solving them.	Sudoko	29
Math Practice 7 Look for and make use of structure. Mathematically proficient students look closely to discern a pattern or structure.	Coding Takes You Everywhere Decode the Binary Message Complete the Pattern	37
Common Core Englsih Language Arts Standards	**Activity Name**	**Page/s**
Literacy Language.L.6.2.B and L.7.2.B Spell correctly.	Make New Words - Propulsion	12
College and Career Readiness Achor Standards for Writing 3 Write narratives to develop real or imaged experiences or events using effective techniques, well-chosen details and well-structured event sequences.	Create Your Own Stanza - *Moving Forward to the Moon*	40
Computer Science Teachers Association, K 12 Computer Science Standards, Revised 2017	**Activity Name**	**Page/s**
2-Data and Analysis-07 Represent data using multiple encoding schemes. Represent the same data in multiple ways.	Coding Takes You Everywhere Decode the Binary Message	4 5