

MARLBORO CENTRAL SCHOOL DISTRICT-CURRICULUM MAP

Subject: Planetarium K-5

Grade: K-5

Grade	Science Concepts (Inquiry Question)	Skills (What students actually do)	Content (nouns and noun phrases)
Kindergarten	<ul style="list-style-type: none"> • About their backyard • Days vs. night • Sun & the moon • The sky for Marlboro is different from other locations 	<ul style="list-style-type: none"> • Recognize the different characteristics of day & night • Identify what is “In Our Backyard” 	<ul style="list-style-type: none"> • In their backyard they will see the sun set & moon rise • There is a day & night sky & stars are always out • Different locations on Earth view
Grade 1	<ul style="list-style-type: none"> • Directions N, S, E, W • The Earth rotates & causes seasons • Sun rises & sets in E & W • Sky is unique in appearance depending on location on Earth 	<ul style="list-style-type: none"> • Identify the directions correctly (N, S, E, W) & where sun rises & sets • Recognize that the earth rotates & causes seasons 	<ul style="list-style-type: none"> • We have N, S, E, W • Our orbit • That the Earth rotates • Why we have seasons & what they are • Where the sun rises & sets
Grade 2	<ul style="list-style-type: none"> • Features of the Earth, moon & sun (general) • Features of (general) stars • Introduction to common constellations - groups of stars make up constellations 	<ul style="list-style-type: none"> • Recognize characteristics of the Earth, moon & sun • Recognize characteristics of stars • Begin to identify common constellations 	<ul style="list-style-type: none"> • There are characteristics of the Earth, moon & sun • The sun is a star • Characteristics of stars
Grade 3	<ul style="list-style-type: none"> • Introduction & description of planets (size, distance) from the sun • The Earth’s gravitational pull • Orbits 	<ul style="list-style-type: none"> • Identify planets • Describe characteristics of planets & distance from sun • Understand how planets orbit around sun 	<ul style="list-style-type: none"> • There are eight planets that all are different sizes & make-ups • Distance from sun • Earth has gravity • What an orbit is & how planets orbit around sun

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Grade 4	<ul style="list-style-type: none"> • The effects of Earth’s rotation, revolution, & tilt • The cause & effect of phases & eclipses of the moon • Compare & contrast planets 	<ul style="list-style-type: none"> • Identify the seasons according to the position & tilt of the Earth • Recognize the phases of the moon & that it revolves around the Earth • Identify the planets by their characteristics & position from the sun 	<ul style="list-style-type: none"> • Earth is tilted on its axis • Earth’s tilt causes seasons • Earth rotates on its axis & revolves around the sun • The moon revolves around the Earth • The moon reflects light to the sun • The position of the sun, moon, & Earth causes the moon phases • The planets have a specific order in their alignment from the sun • The atmosphere & composition of each planet is different
Grade 5	<ul style="list-style-type: none"> • Constellations are connected to Greek mythology • Altitude of Polaris is equal to observer’s latitude 	<ul style="list-style-type: none"> • Describe the unique properties of our sun (revolving planets with H₂O & life etc) • Recognize & name major constellations in the night sky • Identify a reflecting vs. a refracting telescope • Identify location of observer based upon Polaris altitude 	<ul style="list-style-type: none"> •