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Course Syllabus

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These lessons are easily digestible lessons focused on aerospace principles. Each lesson is broken down into grade levels and is meant to spark conversation and interest in aerospace. Lessons will range from engineering to mathematics, to physics, to highlighting aerospace anniversaries -- all of which will be presented in a way that easily relates to your students.

For this programme, we have 92 lessons in all. The mini-curriculum is subdivided into 19 course-packs. At the end of each pack, we have 10 selected multiple choice questions with 2 each from the 5 topics.

NOTE: The assessment for each pack comes at the end of the last lesson for the pack.

LESSON PACK 1:

- Aerospace Micro-Lesson 1 -- The Earth's Hemispheres
- Aerospace Micro-Lesson 2 -- Orbital Debris
- Aerospace Micro-Lesson 3 -- Living In Space
- Aerospace Micro-Lesson 4 -- Large Numbers
- Aerospace Micro-Lesson 5 -- Observing the Moon

LESSON PACK 2:

- Aerospace Micro-Lesson 6 -- Up, up, and Away in my Beautiful Balloon
- Aerospace Micro-Lesson 7 -- How Long is a Day
- Aerospace Micro-Lesson 8 -- Orbital Dynamics
- Aerospace Micro-Lesson 9 -- Transit of Mercury
- Aerospace Micro-Lesson 10 -- Jackie Cochran

LESSON PACK 3:

- Aerospace Micro-Lesson 11 -- Gemini VIII
- Aerospace Micro-Lesson 12 -- Airspeed
- Aerospace Micro-Lesson 13 -- Asteroids and Dinosaurs
- Aerospace Micro-Lesson 14 -- Spinning Ball of Water in Space
- Aerospace Micro-Lesson 15 -- Metric Units of Measurement

LESSON PACK 4

- Aerospace Micro-Lesson 16 -- How do Airplanes Fly
- Aerospace Micro-Lesson 17 -- Parallax and the Size of the Solar System
- Aerospace Micro-Lesson 18 -- Hedgehog Robot
- Aerospace Micro-Lesson 19 -- The Mariner Project
- Aerospace Micro-Lesson 20 -- How Long Is A Year

LESSON PACK 5

- Aerospace Micro-Lesson 21 -- Images from Space
- Aerospace Micro-Lesson 22 -- The Magnus Effect
- Aerospace Micro-Lesson 23 -- The Rosetta Mission
- Aerospace Micro-Lesson 24 -- Measuring the Size of the Universe
- Aerospace Micro-Lesson 25 -- Antoine de Saint-Exupery

LESSON PACK 6

- Aerospace Micro-Lesson 26 -- Spot the Space Station
- Aerospace Micro-Lesson 27 -- How High Is It
- Aerospace Micro-Lesson 28 -- Everyday Drones
- Aerospace Micro-Lesson 29 -- Divisibility Rules
- Aerospace Micro-Lesson 30 -- Earth's Temporary Moons

LESSON PACK 7

- Aerospace Micro-Lesson 31 -- Ride a Sounding Rocket (NGSS)
- Aerospace Micro-Lesson 32 -- Earth's Weather
- Aerospace Micro-Lesson 33 -- Navigating the Skies
- Aerospace Micro-Lesson 34 -- Pi Day (002)
- Aerospace Micro-Lesson 35 -- Hanny's Voorwerp

LESSON PACK 8

- Aerospace Micro-Lesson 36 -- International Day of Human Space Flight
- Aerospace Micro-Lesson 37 -- Aerial Refueling
- Aerospace Micro-Lesson 38 -- Sensing Weather from a Distance
- Aerospace Micro-Lesson 39 -- Crossing the Atlantic by Air
- Aerospace Micro-Lesson 40 -- Solar Eclipse

LESSON PACK 9

- Aerospace Micro-Lesson 41 -- Hoaxes and Bad Science
- Aerospace Micro-Lesson 42 -- The International Geophysical Year

November 2019						
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Course assignments are not weighted.

- Aerospace Micro-Lesson 43 -- Vapor Trails
- Aerospace Micro-Lesson 44 -- Rocket Science 101
- Aerospace Micro-Lesson 45 -- Voyager Missions

LESSON PACK 10

- Aerospace Micro-Lesson 46 -- Atmospheric Pressure
- Aerospace Micro-Lesson 47 -- Sputnik 1
- Aerospace Micro-Lesson 48 -- Regular Geometric Figures
- Aerospace Micro-Lesson 49 -- Prevailing Winds
- Aerospace Micro-Lesson 50 -- Length of a Day on Different Planets

LESSON PACK 11

- Aerospace Micro-Lesson 51 -- Liquids in Microgravity
- Aerospace Micro-Lesson 52 -- The Wright Brothers
- Aerospace Micro-Lesson 53 -- Calendars
- Aerospace Micro-Lesson 54 -- Make Your Own Telescope
- Aerospace Micro-Lesson 55 -- Wingtip Vortices

LESSON PACK 12

- Aerospace Micro-Lesson 56 -- Rocket Science II Guidance and Stability
- Aerospace Micro-Lesson 57 -- Clouds
- Aerospace Micro-Lesson 58 -- Equinoxes and Solstices
- Aerospace Micro-Lesson 59 -- Aviation Oddities (1)
- Aerospace Micro-Lesson 60 -- Polyominoes

LESSON PACK 13

- Aerospace Micro-Lesson 61 -- Star Wars
- Aerospace Micro-Lesson 62 -- SR-71
- Aerospace Micro-Lesson 63 -- Weather Patterns in the Solar System
- Aerospace Micro-Lesson 64 -- Asteroid Day
- Aerospace Micro-Lesson 65 -- Neil Armstrong

LESSON PACK 14

- Aerospace Micro-Lesson 66 -- Graf Zeppelin
- Aerospace Micro-Lesson 67 -- Osiris Rex
- Aerospace Micro-Lesson 68 -- Science Mathematics And Art
- Aerospace Micro-Lesson 69 -- Lifting-Bodies
- Aerospace Micro-Lesson 70 -- Aurora-Borealis

LESSON PACK 15

- Aerospace Micro-Lesson 71 -- Chuck Yeager
- Aerospace Micro-Lesson 72 -- Fire In Space
- Aerospace Micro-Lesson 73 -- Simple Machines
- Aerospace Micro-Lesson 74 -- Prime Numbers
- Aerospace Micro-Lesson 75 -- Space Weather

LESSON PACK 16

- Aerospace Micro-Lesson 76 -- Apollo 8
- Aerospace Micro-Lesson 77 -- Exoplanet
- Aerospace Micro-Lesson 78 -- Hovercraft And Hydrofoils
- Aerospace Micro-Lesson 79 -- Riding A Solid Rocket Booster
- Aerospace Micro-Lesson 80 -- Periodic Table

LESSON PACK 17

- Aerospace Micro-Lesson 81 -- Pluto
- Aerospace Micro-Lesson 82 -- Douglas Dc 3
- Aerospace Micro-Lesson 83 -- Space Shuttle
- Aerospace Micro-Lesson 84 -- The Race To The Moon
- Aerospace Micro-Lesson 85 -- The Early Apollo Program

LESSON PACK 18

- Aerospace Micro-Lesson 86 -- Comet Shoemaker Levy 9
- Aerospace Micro-Lesson 87 -- Apollo 11
- Aerospace Micro-Lesson 88 -- The Soviet Moon Program
- Aerospace Micro-Lesson 89 -- The Later Apollo Project 4
- Aerospace Micro-Lesson 90 -- Juno At Jupiter

LESSON PACK 19

- Aerospace Micro-Lesson 91 -- Space Spin Offs In Everyday Life
- Aerospace Micro-Lesson 92 -- Luna 3 And The Far Side Of The Moon

Course Summary:

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