

THE AEROSPACE CURRICULUM

an index of related topics



how airplanes are built is
INDUSTRIAL ARTS



who controls airplanes is
GOVERNMENT



what airplanes
cost is ECONOMICS



where airplanes land is
SOCIAL STUDIES



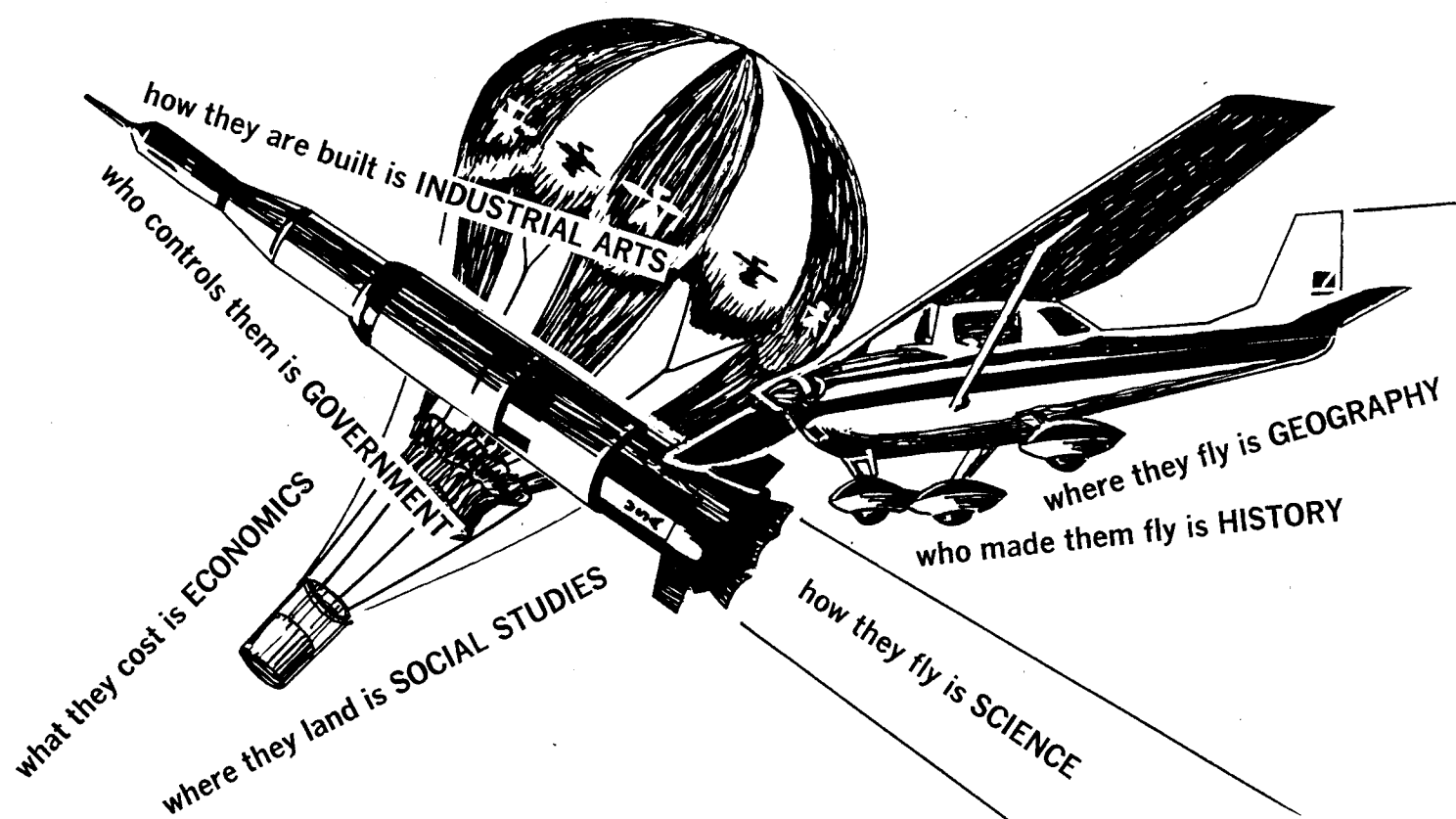
how airplanes fly is
SCIENCE



who made airplanes fly is
HISTORY



where airplanes fly is
GEOGRAPHY



SELECTED AEROSPACE TOPICS IN CURRICULUM CONTEXT

AGRICULTURE

Aerial photography
Agricultural aviation
Australia's aviation
Crop dusting
Cloud seeding
Economic implications
Food and nutrition
Infrared radiation
International Agricultural Aviation Centre
International Flying Farmers
Photosynthesis
Weather
Weather satellites

ART

Balloons
Commemorative stamps and medals
Da Vinci, Leonardo
History of aviation
Insignia
Interiors of aircraft
Kites
Medals and decorations
Model aircraft
Mythology
Objects of art
Photography
Pilot and crew wings
Science fiction
Trophies and awards

ASTRONOMY

Asteroids
Astronautics
Astronomy

Astrophysics
Celestial mechanics
Celestial sphere
Comets
Constellations
Cosmic rays
Eclipse
Galaxies
International Years of the Quiet Sun
Interplanetary travel
Kepler's laws
Light
Mariner probes
Meteors
Moon
Observatories
Orbiting observatories
Orbits and trajectories
Planetariums
Planets
Quantum theory
Quasar
Radio astronomy
Relativity theory
Solar system
Stars
Sun
Telescopes
Ultraviolet
Universe
X-rays

BIOLOGY

Animals in space
Aviation medicine
Biosatellites
Bird flight
Circadian rhythm
Closed ecological system
Extraterrestrial life
Hydroponics

Kosmos satellites
Photosynthesis
Space biology

BUSINESS LAW

Airports
Certification procedures
Civil Aeronautics Board
Crash investigation
Government contracts
Insurance
Legal implications
Patents
Police and fire services
Registration of aircraft

CAREER GUIDANCE

Air traffic control
Army aviation
Astronauts
Careers
Charter flying
Cryogenics
Crystallography
Cybernetics
Flight instruction
General aviation
Government in aerospace
Ground service and maintenance
Manufacturing
Occupations
Pilots and pilot certificates
Pilot training
Spacecraft design
Stewards and stewardesses
Test pilots
Women in aerospace

CHEMISTRY

Air
Alloys
Atoms
Atmosphere
Chemical energy
Closed ecological system
Cryogenics
Elements
Fuels
Gases
Lubricants
Propellants
Specific gravity

EARTH SCIENCE

Air masses
Applications Technology
Satellites
Astrogeology
Astronautics
Astronomy
Astrophysics
Atmosphere
Aurora
Aviation weather
Boyle's law
Charts
Compasses
Density altitude
Discoverer program
Earth
Environmental research satellites
Explorer satellites
Geodetic satellites
Gravity
Greenhouse effect
Kosmos satellites
Latitude and longitude
Lightning

Lunar charts
Magnetic course
Maps and mapping
Mariner probes
Meteorology
Navigation systems
Navigation techniques
Oceanographic research
Orbiting observatories
Pilotage
Precipitation
Ranger
Sounding rockets
Surveyor
Van Allen belts
Weather
Weather maps and charts
Weather satellites

ECONOMICS

Aerospace industry
Airports
Bush flying
Business aviation
Cargo aircraft
Commercial airlines
Commercial air transports
Crop dusting
Economic implications
Fixed base operator
Flight simulators
General aviation
Government contracts
Government in aerospace
Jet aircraft
Jumbo jets
Manufacturing
Production techniques
Program management
Supersonic transports
Utility aviation

GENERAL SCIENCE

Airplane
Astronomy
Atmosphere
Atoms
Barometric pressure
Bernoulli's principle
Bird flight
Clouds
Electricity
Energy
Engines
Fog
Galaxies
Helicopters
Jet aircraft
Launch vehicles
Man in flight
Matter
Mercury program
Photography
Planets
Radio communications
Satellites
Saturn rockets
Space stations
Stars
Sun
Walk in space
Weather
Weather satellites

GEOGRAPHY

Bush flying
Cartography
Charts
Compasses
Course plotting
European aerospace activities

Latitude and longitude
Magnetic course
Maps and mapping
Photography
Photogrammetry
U.S.S.R. aerospace activities

GEOLOGY

Astrogeology
Geodetic satellites
Mountain, desert, and jungle flying
Photogrammetry
Ranger
Surveyor

GOVERNMENT

Aerospace industry
Air Commerce Act
Air traffic control
Apollo
Army aviation
Civil Aeronautics Board
Coast Guard aviation
Crash investigation
FAA
Federal Aviation Regulations
Flight service station
Government contracts
Instrument Flight Rules
Marine Corps aviation
Mercury program
Military aviation
Military space program
NASA
National Airspace System
Naval aviation
Pilots and pilot certificates
Registration of aircraft
Visual Flight Rules

HEALTH

Aerospace medicine
Animals in space
Astronauts
Circadian rhythm
Drug effects
Environmental control systems
Flight physical
Food and nutrition
Human engineering
Hypoxia
Life-support systems
Man in flight
Manned spaceflight
Man-powered flight
Pressurization
Sensory deprivation
Spacesuits
Temperature control
Weightlessness

HISTORY

Ace
Air Commerce Act

Air raid
Altitude records
Autogiros
Balloons
Barnstormers
Battle of Britain
Biographies
Bomber aircraft
Bush flying
Commemorative stamps and medals
Dirigibles
Distance records
Endurance records
First World War aircraft
Flying Circus
Gliders
History of aviation
Korean War
Luftwaffe
Man-powered flight
Mythology
National Advisory Committee for Aeronautics
Rheims Air Meet
Science fiction
Second World War aircraft
Speed records
Women in aerospace
World War I
World War II

HOME ECONOMICS

Fabrics
Food and nutrition
Interiors of aircraft
Spacesuits
Stewards and stewardesses

INDUSTRIAL ARTS

Aerial photography
Aircraft propulsion systems
Avionics
Electronics
General aviation aircraft
Generators and alternators
Interiors of aircraft
Manufacturing
Materials
Metals and metallurgy
Occupations
Preventive maintenance
Production techniques
Refueling
Spacecraft design

INTERNATIONAL RELATIONS

Air defense systems
Air forces of the world
Berlin airlift
Commercial airlines
DEW line
Federation Aeronautique Internationale

Five Freedoms
International agreements
International Geophysical Year
International projects
Israeli-Arab Conflict 1967
Missiles
Political implications
Reconnaissance
Space law
Tracking systems and networks
United Nations

MATHEMATICS

Binary numbers
Celestial navigation
Course plotting
Cybernetics
Dead reckoning
Doppler navigation
Escape velocity
Information systems
Navigation techniques
Orbits and trajectories
Parabola
Telemetry
Weight and balance

MEDICINE

Acceleration
Aerospace medicine
Animals in space
Astronauts
Aviation medicine
Circadian rhythm
Closed ecological system
Decompression
Drug effects
Environmental control systems
Environmental simulators
Escape systems
Flight physical
High-altitude flight training
Human engineering
Hypoxia
Life-support systems
Man in flight
Manned spaceflight
Mercury program
Parachutes
Pressurization
Psychological factors of flight
Re-entry vehicles
Sensory deprivation
Space biology
Spaceflight training
Space medicine
Spacesuits
Technological projections
Walk in Space
Weightlessness
X-rays

METEOROLOGY

Air
Air masses
Atmosphere

Barometric pressure
Clouds
Convection currents
Earth science
Evaporation and condensation
Fog
Humidity
Precipitation
Turbulence
Weather maps and charts
Weather satellites
Wind

PHYSICS

Acoustics
Aerodynamics
Aircraft propulsion systems
Airfoil
Airplane
Airspeed indicator
Alloys
Area rule
Astronautics
Attitude control
Automatic landing
Avionics
Bank
Bearing
Bernoulli's principle
Boyle's law
Carburetion
Center of gravity
Computers
Cryogenics
Crystallography
Doppler effect
Dynamic soaring
Electricity
Electromagnetism
Electronics
Energy
Engines
Escape velocity
Flight management
Fluid mechanics
Gas turbine engines
Ground-effect machines
Gyroscope
Heat energy
Heat shields
High-lift devices
Hydraulic systems
Hypersonic flight
Inertial guidance
Infrared radiation
Instrument panel
Lasers
Launching
Lifting-body vehicles
Maneuvers
Matter
Measurement of power
Metals and metallurgy
Newton's laws
Noise
Nuclear energy
Nuclear propulsion
Pitot-static system
Plasma
Power management
Radar
Radiation
Radio

Reciprocating engines
Rendezvous and docking
Robots
Rotating combustion engines
Sailplanes
Semiconductors
Shock wave
Solar cells
Solid-state physics
Space propulsion systems
Supersonic flight
Television
Temperature scales
V/STOL aircraft
Wind tunnels
Wings
X-rays

PSYCHOLOGY

Astronauts
Aviation medicine
Cosmonauts
Flying safety
Gemini
Man in flight
Pilot training
Psychological factors of flight
Spaceflight training
Space medicine

SOCIAL STUDIES

Air defense systems
Air forces of the world
Airmail
Air taxis
Apollo
Army aviation
Atlas missile
Berlin airlift
Biographies
Blockhouse
Bombs
Careers
Cargo aircraft
Commercial airlines
Communications satellites
Crop dusting
Cybernetics
Demonstration teams
DEW line
Economic implications
Educational implications
Eurospace
European aerospace activities
Fighter aircraft
Fixed base operation
Flight (as passenger)
Flight test programs
Flying doctor services
Forest fire control
Gemini
General aviation
Gliders
Gliding
Government in aerospace
Hangars
Helicopters
Heliports

High-speed surface transportation
History of aviation
Homebuilt aircraft
Instrument flight techniques
Insurance
Interplanetary travel
Israeli-Arab Conflict—1967
Jet aircraft
Jumbo jets
Kamikaze
Kennedy Space Center
Korean War
Launch facilities
Launch vehicles
Luftwaffe
Lunar bases
Lunar exploration
Manned Orbiting Laboratory
Manned spaceflight
Manufacturing
Mercury program
Military aircraft
Military implications
Military space program
Missiles
Mythology
NASA
Naval aviation
NORAD
Oceanographic research
Penemuende
Polar flights
Police and fire services
Preflight training
Production techniques
Program management
Radio communications
Rescue and recovery service
Rockets and rocketry
Runways
Safety statistics
Sailplanes
Satellites
Saturn rockets
Search and rescue
Social implications
Space stations
Sport flying
Strategic Air Command
Supersonic transports
Systems engineering
Technological projections
Unidentified flying objects
U.S.S.R. aerospace activities
Utility aviation
Weaponry
Wind tunnels
X-series aircraft

SPEECH AND COMMUNICATIONS

Air traffic control
Communications satellites
Ground control approach
Morse code
Phonetic alphabet
Terminology of aerospace