

Science Curriculum 自然、科学课程

	Ecology 生态环境	Biology 生物	Physics/Astronomy 物理	Chemistry 化学	Earth Science/Geology 地球学/地质学
Pre-S 3-yr old	POI Caring for plants and animals	POI Human body: physical characteristics	POI Shadows & reflections Physical characteristics of objects		
Pre-K 4-yr old	POI Human/animal/plant life cycles Plants & plant growth.	POI Human body: basic needs, 5 senses, body parts.	Properties of water, air & light.		Intro to seasons & weathers.
Kinder 5-yr old	POI Animal habitats Animals & their needs		Intro to Magnetism. Intro to the Solar System & the sun as source of energy		Seasons & weather (II): formation & characteristics.
1st grade	Basic animal classification. POI Plants and plant growth (II): Rainforest	POI Basic human body systems. Health & nutrition. Illness prevention programs & basic hygiene.	Intro to Electricity.	POI Properties of matter. States of matter	Earth features inside & out. Geographical features of the earth's surface. Oceans & undersea life.
2nd grade	POI Insects: roles in nature, life-styles, life cycles		Magnetism: poles, orienteering. Simple machines, friction. Properties of heat, light & sound.	Measurement: length, volume & temperature.	POI Seasonal cycles & the earth's orbit. Water cycle, air & weather.

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3rd grade	Animal classification.	POI Body systems: muscular, skeletal, nervous, etc. Adaptation of human body	POI Energy sources. Properties of light, optics & sound.		POI earth resources and demands - case study: water
4th grade	POI Ecosystems. Balance of nature. Environmental threats.	POI Human body: puberty, endocrine & reproductive systems. In-depth circulatory & respiratory systems (parts, functions, etc.)		Elements. Concentration, solution.	Fossil records. Earth's layers. Formations, mountains & rocks. Weather & erosion.
5th grade	Classification of all living things, kingdoms.	Plant & animal cells: structures & processes.	POI Electricity types, circuits, conductors & insulators. Electromagnets, using electricity safely.	Chemical change.	POI adaptation of organisms
6th grade	Food chain.		POI Earth, space & the universe - Big Bang, galaxies, gravity, space exploration. Mechanical concepts: mass, force, energy, power, heat & matter.		