

MYP Subject Area: Sciences

Unit Title	Key Concept	Related Concepts	Global Context	Statement of Inquiry	Subject Objectives & Strands	Overview of Summative Assessment Task	Approaches to Learning Skill Clusters	Content
Studying Materials Scientifically	Systems	Interaction, Evidence	Science and Technological (understanding scientific principals)	Interaction and Systems can be revised based on evidence	C:Processing and evaluating (i, ii, iii,)	Debate: Choosing a Cleaner: Properties of substances;evidence/trade-offs	Thinking	Expermental Design; chemical & physical properties
The Chemistry of Materials	Relationships	Form, Function	Globalization and Sustainability	Relationships can be the connection between form and function and impact the decision making on the environment	C:Processing and evaluating (i, ii, iii, iv,v)	Powerpoint Presentation: The Green Computer Decision: Life cycle of a computer; green chemistry	Communication/Critical Thinking	Building blocks of matter, elements & periodic table
Water	Systems	Models, Evidence	Fairness and Development (Human responsibility)	Systems can provide models and evidence in human, natural and built environments.	D:Reflecting on the impacts of science (i, ii, ii,iv)	Press Conference: Decisions about Willow Creek's Water: Chemical/physical properties of water & water contaminants; risk management	Reflection	Acids, basis, parts per million, ph Scale, molecules
Energy	Change	Transformation Movement Energy	Globalization and Sustainability	Technology designers creatively apply energy transformations in order to develop and reinvent devices.	C:Processing and evaluating (i, ii, iii, iv,v)	Pop-Up Book: Improving Household Efficiency: Energy conservation; cost analysis, trade-offs	Information Literacy/Creative Thinking	renewable/nonrenewable resources; types of energy; energy transformation;potential/kinetic energy; law of conservation of energy
Force & Motion	Systems	Function, Movement	Orientation in time and space	The size (model) of something affects (consequences) the movement (motion)??	D:Reflecting on the impacts of science (i, ii, ii,iv)	Photo Essay: Safety for all; weighing evidence & trade-offs	Media Literacy	force, acceleration, mass and friction, Newton's laws of motion.
Inquiring & Designing (See Studying Materials Unit Plan)	Process	Evidence, Design, Methods	Science and technological	Scientists design logical, complete and safe methods in which he/she selects appropriate materials and equipment	B: Inquiring & Design(i, ii,iii,iv)	Lab: A plan to separate a mixture	Organization transfer	scientific method