NGSS High School Implementation Plan

January 22, 2018

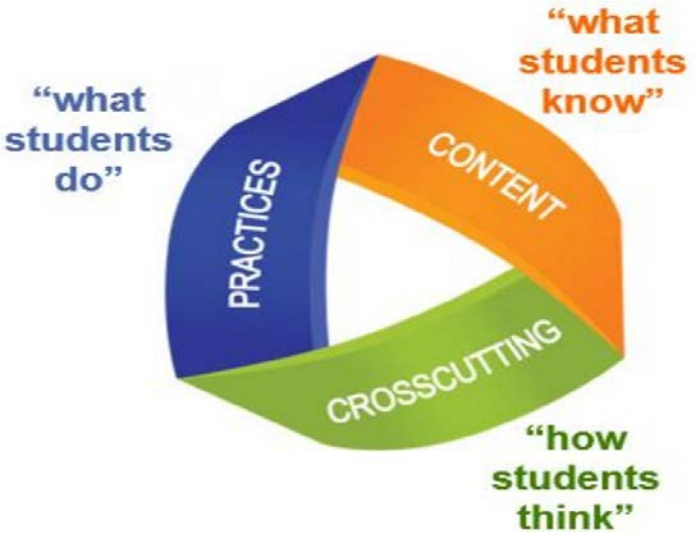
MT. DIABLO
UNIFIED SCHOOL DISTRICT

MDUSD High School NGSS Steering Committee

Front row, left to right: Felicia Yu, Carol Mishler, Karen Lowande, Jill Maganito, Lynn Young, Jan Robertson(Science Teacher on Special Assignment),Rochelle Macaluso, Deb Arthur, Maria Fletcher, Nancy Krajcar,Todd Bauleke Tessa Ekkenfelder, Mike Jimenez (Administrator),Tom Heller,Arthur Beauchamp (Facilitator), Evan White,Peter Bodrog. (Not available photo day: Dylan Bland, Spoogmai Habibi,Marcy Place, Kipp Penovich, Cori Starr).

What is the NGSS?

Science and Engineering



Core ideas in the discipline

Concepts across disciplines

MDUSD Science Vision Statement

*"Mt. Diablo Unified School District will ensure that **all** students are provided with a rich science curriculum which embodies the core ideas of science and bridges science and engineering to guide **all** students as they become responsible global citizens. The curriculum will provide tools and critical thinking skill necessary to enable life-long learning and to better adapt to the ever-changing word."*

Science Vision Statement created by the NGSS Roll-Out Committee April 14, 2015

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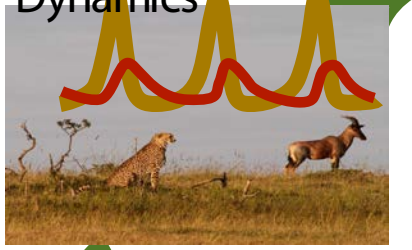
Ecosystems

Climate Change & Ecosystem Dynamics

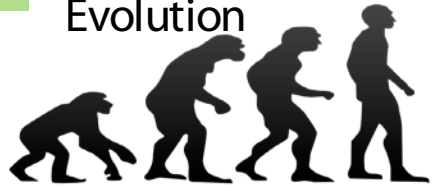


Earth's Atmosphere: Photosynthesis & Respiration

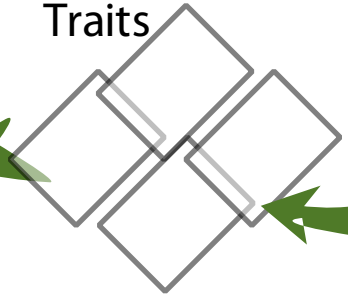
3 course model

The Living Earth

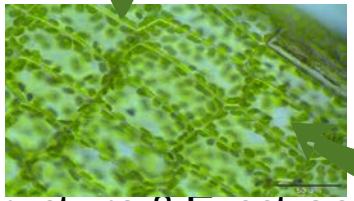
Evolution



Inheritance & Variation in Traits



Fossil Evidence & Plate Tectonics

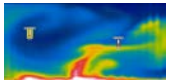


Structure & Function: Cells to Organisms

Combustion

CO_2

Heat



Climate Change

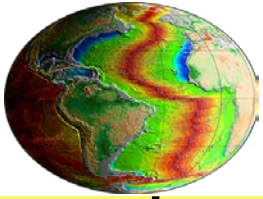
Ocean Acidification

Convection

Particles

Atoms & Elements

Plate tectonics



Chemical Reactions

Bonds

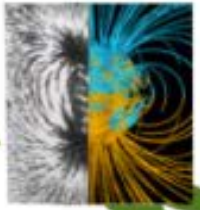
Fossil Fuel Combustion

Equilibrium

CO_2 in Atmosphere/Ocean

Chemistry in the Earth System

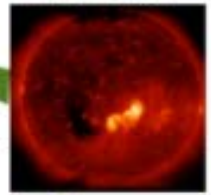
Forces & Motion



Forces at a distance

Planetary Motion

Origins of our Universe



Star Stuff

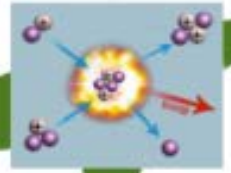
Gravity

Gravity

Spectra

Energy Conversion

Nuclear Processes

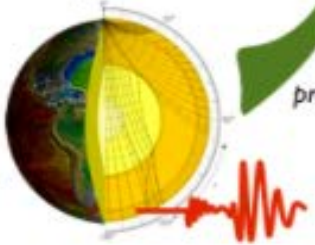


Fusion

Fission

Electromagnetic Spectrum

Earthquake Waves



Wave propagation

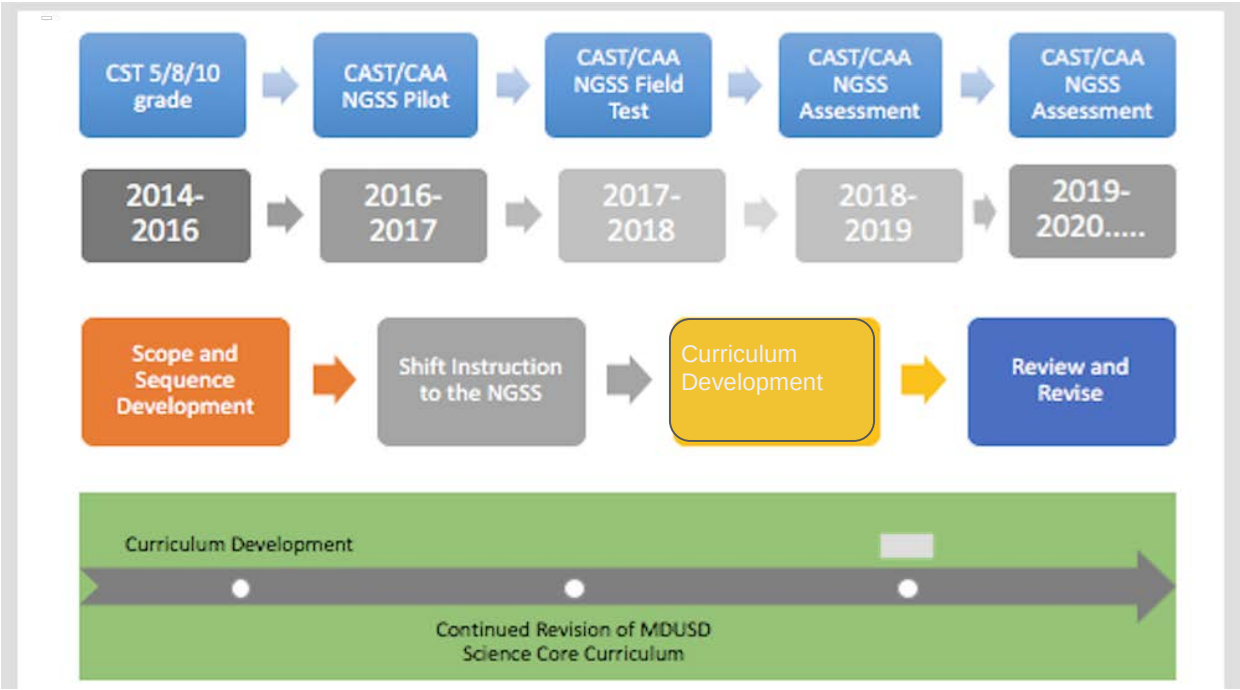
Radiometric Dating

Decay

Seafloor age evidence of plate tectonics

3 course model

Physics in the Universe



Transition Timeline