

The background features a gradient from dark purple to deep blue, overlaid with a field of small white stars. On the left side, there are several technical diagrams: a large circular scale with numerical markings from 140 to 260, and several smaller circular diagrams with arrows indicating clockwise or counter-clockwise rotation. The text is centered in the right half of the image.

DEXTER HIGH SCHOOL

SCIENCE CURRICULUM CONTINUUM

MICHIGAN SCIENCE STANDARDS

- Curriculum rollout occurred in the fall of 2015
- Implementation of concepts related to the standards has begun prior to implementation in preparation.
- Dexter High school has planned a 4 year adoption process in preparation for the 2020 school year
 - 2020 will see a inclusion of the Michigan Science Standards for State testing

FOUR YEAR PLAN

- 2015-2016
 - Review current classes and worked as a department to alter prescribed courses to best serve our students.
 - Chemistry was reconstructed and built around science and engineering skills.
- 2016-2017
 - Reconstruction of a ninth grade biology class built around science and engineering skills
- 2017-2018
 - Courses are altered to deliver biology in the ninth grade and physics/chemistry in the tenth grade
- 2018-2019
 - Review ninth and tenth grade curriculum to assess successive and areas to be considered.
- 2019-2020
 - Full implementation of Michigan Science standard with a skills based approach

SCIENCE & ENGINEERING PRACTICES

- Science works to answer questions about phenomenon while engineering works to solve problems associated with working within these phenomenon
 - Asking questions and defining problems
 - Developing and using models
 - Planning and carrying out investigations
 - Analyzing and interpreting data
 - Using mathematical and computational thinking
 - Constructing explanations and designing solutions
 - Engaging in argument from evidence
 - Obtaining, evaluating, and communicating information

CROSS CUTTING CONCEPTS

- Ideas that daily lessons plans are based upon
 - Patterns
 - Cause and Effect
 - Scale, Proportion, and Quantity 4. Systems and System Models
 - Energy and Matter in Systems 6. Structure and Function
 - Stability and Change of Systems

STATE GRADUATION REQUIREMENTS

Three credits in the scientific fields are required

- One credit of biology
- One credit of either physics or chemistry
- One credit of elective science credit

DEXTER HIGH SCHOOL SCIENCE COURSE SEQUENCE

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
Biology	Physics or Chemistry	Dangerous Earth .5 crd Astronomy .5 crd Anatomy .5 crd Zoology .5 crd AP Physics IB Physics AP Chemistry AP Biology IB Biology IB Sports Exercise	Dangerous Earth .5 crd Astronomy .5 crd Anatomy .5 crd Zoology .5 crd AP Physics IB Physics AP Chemistry AP Biology IB Biology IB Sports Exercise