

Appendix B.1: Science Standards Review Rubric

Ohio Revised Code 3301.079 (I)(2)(a)

Each committee created in division (I)(1) of this section shall review the academic content standards for its respective subject area to ensure that such standards are **clear, concise, and appropriate for each grade level** and **promote higher student performance, learning, subject matter comprehension, and improved student achievement**. Each committee also shall review whether the standards for its respective subject area **promote essential knowledge in the subject, lifelong learning, the liberal arts tradition, and college and career readiness** and whether the standards **reduce remediation**.

Definitions

Clear – Easily understood; free from doubt or confusion¹⁸

College and Career Readiness – remediation-free status; prepared to enroll in non-remedial, credit-bearing college courses leading to a postsecondary degree or other credential¹⁹

Concise – Succinct and comprehensive; using few words, not including extra or unnecessary information²⁰

Essential Knowledge – key academic concepts and skills that are deemed to be essential in leading to success in school, higher education, careers, and adult life²¹

Grade Level Appropriate – the quality of ability and work that is appropriate for students in a specified grade²²

Liberal Arts Tradition – the study of literature, languages, philosophy, history, mathematics, and science as the basis of a general, or liberal, education.²³

Lifelong Learning – the ongoing, voluntary, self-motivated pursuit of knowledge²⁴

Remediation – a prerequisite course to enrolling in courses generally required for first-year college students²⁵

¹⁸ Merriam-Webster Dictionary: <http://www.merriam-webster.com/dictionary/clear>

¹⁹ Ohio Uniform Statewide Standards for Remediation-Free Status: https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/data/reports/hs-to-college/2012_UNIFORM_STATEWIDE_REMEDIATION_FREE_STANDARDS%28010913%29.pdf

²⁰ Merriam-Webster Dictionary: <http://www.merriam-webster.com/dictionary/concise>

²¹ The Glossary of Education Reform: <http://edglossary.org/standards-based/>

²² Vocabulary.com: <http://www.vocabulary.com/dictionary/grade-appropriate>

²³ Encyclopaedia Britannica: <http://www.britannica.com/EBchecked/topic/339020/liberal-arts>

²⁴ Wikipedia: http://en.wikipedia.org/wiki/Lifelong_learning

²⁵ Ohio Revised Code 333.041: <http://codes.ohio.gov/orc/3333.041>

Standards – A level of attainment regarded as a goal or measure of adequacy of the essential academic content and skills that students are expected to know and be able to do at each grade level

Student Achievement – the amount of academic content a student learns in a determined amount of time²⁶

Student Performance and Learning – academic progress as measured by such as formative and summative assessment data, coursework, instructor observations, information about student engagement and time on task, and similar information²⁷

Subject Matter Comprehension – ability to understand²⁸ matter presented for consideration in discussion, thought, or study²⁹

Standards Committee (Content Area)	Science
Committee Member Name	
Element Under Review (Theme, Area, Strand)	(Specific element, under review to be provided to Committee Members, e.g. content of specific strand, area, theme)
Grade Level(s) Under Review	K-2; 3-5; 6-8; High School Courses

- Review level**
- Yes** it meets the review criteria
 - Partially** meets the review criteria or **undetermined**
 - No** it does not meet the review criteria

²⁶ Education Portal: <http://education-portal.com/academy/lesson/student-achievement-definition-factors-research.html>

²⁷ United States Department of Education: <http://www.ed.gov/race-top/district-competition/definitions>

²⁸ Merriam-Webster: <http://www.merriam-webster.com/dictionary/comprehension>

²⁹ Merriam-Webster: <http://www.merriam-webster.com/dictionary/subject%20matter>

Review Criteria	Review Level	Notes
Is the element clear and concise ?		
Is the element grade level appropriate ?		
Does the element promote higher student performance, learning and improved student achievement ?		
Does the element support subject matter comprehension ?		
Does the element promote essential knowledge in the subject ?		
Does the element promote lifelong learning ?		
Does the element promote the liberal arts tradition ?		
Does the element promote college and career readiness ?		

Review Criteria	Review Level	Notes
Does the element reduce the need for remediation ?		
Does the element meet the definition of a standard ?		