

Science and Social Studies Update



PAST, PRESENT, AND FUTURE



Presenters



Science

Social Studies

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Test Development



- STEP 1:** Local Education Expert Item Writing Committees
- STEP 2:** Local Education Expert Bias/Content Review Committees
- STEP 3:** Field testing
- STEP 4:** Data Review Committees – BSC and CAC
- STEP 5:** Operational
- STEP 6:** Local Education Expert Standard Setting
(Only done with new tests)



Our assessment is developed by Michigan educators for Michigan classrooms.



Be Part of Our Team!

Use the information to the right to become a writer, reviewer, or panelist in our test development process.

Application URL:
<http://www.cvent.com/Surveys/Questions/IDConfirm.aspx?s=06002a4e-c578-417d-807f-542787fad180>
 or
www.michigan.gov/baa → Scroll to bottom of page → click *Assessment Committee Participation Application*

Science and Social Studies Pre-2015



Science	Social Studies
<ul style="list-style-type: none"> • MME • MEAP • Measured science standards - 2007 adoption • Test item type included multiple choice (MC) items 	<ul style="list-style-type: none"> • MME • MEAP • Measured social studies standards - 2008 adoption • Test item type included multiple choice (MC) items

Science and Social Studies 2014 - 2015



Science	Social Studies
<ul style="list-style-type: none"> • M-STEP • Measures student understanding of current (2007 adoption) science content standards • MC items only on assessment • Next Generation Science Standards (NGSS) update for content standards waiting for board review 	<ul style="list-style-type: none"> • M-STEP • Measures student understanding of current (2008 adoption) social studies content standards • MC items only on assessment • College, Career, and Civic Life Framework (C3) update for content standards waiting for board review

Science and Social Studies 2015 - 2016



Science

- Continue development for M-STEP
- Measures CURRENT science standards
- Major focus on writing technologically-enhanced (TE) items and added stimulus for MC items for online test

Social Studies

- Continue development for M-STEP
- Measures CURRENT social studies standards
- Major focus on writing technologically-enhanced (TE) items and added stimulus for MC items for online test

Engaging Online Assessment



- HOT TEXT**
- HOT SPOT**
- MATCH**
- DRAG AND DROPS (TEXT AND GRAPHIC)**
- CHOICE**
- DROP DOWN**
- ORDER**



Science Example

MC Sample Item

Sample Grade 4 Item P.EN.03.32 Distinguish the effect of fast or slow vibrations as pitch

Vibrations from a thick rubber band make a low-pitched sound. The vibrations from a thin rubber band make a high-pitched sound. This is *most likely* because the thin rubber band

- A moves faster.
- B moves slower.
- C is shorter.
- D is longer.

Science Example

MC Sample Item

Sample Grade 7 Item S.IP.07.12 Design and conduct scientific investigations

What is the main reason for clearly recording the procedures for an experiment?

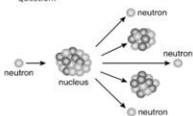
- A so the experiment can be modified
- B so the experiment can be connected
- C so the experiment can be repeated
- D so the experiment can be summarized

Science Example

MC Stimulus Sample Item

Sample Grade 11 Item
PA.12A Describe peaceful technological applications of nuclear fission and radioactive decay

Use the diagram below to answer the question.



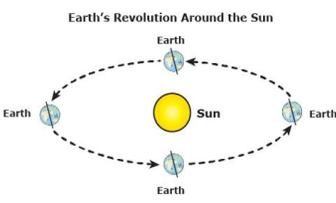
Which technology utilizes this process to obtain energy to generate electricity?

- A solar cell
- B combustion turbine
- C nuclear fission reactor
- D nuclear fusion generator

Science Example

MC Stimulus Sample Item

Earth's Revolution Around the Sun



Science Specific Resources



http://www.michigan.gov/documents/mde/Final_NGSS-MI-Content_Comparison_Study_473973_7.pdf?20150806105329



Science Specific Resources



http://www.michigan.gov/documents/mde/Michigan_Science_Standards_Presentation_488330_7.pdf?20150806105329



Science Specific Resources



http://www.michigan.gov/documents/mde/Teacher_Preparation_and_PL_for_Science_SBE_Oct2014_488329_7.pdf?20150806105329



Thank you!