**TITLE:** HTSB Approval of Updated Praxis Licensure Exams

The Hawaii Teacher Standards Board approves the following updates to the following Praxis exams:

<table>
<thead>
<tr>
<th>Title to be Discontinued</th>
<th>Date of Last Admin.</th>
<th>Replacement Test</th>
<th>New Test Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology: Content Knowledge (5235)</td>
<td>Aug. 2023</td>
<td>Biology (5236)</td>
<td>Available now</td>
</tr>
<tr>
<td>Chemistry: Content Knowledge (5245)</td>
<td>Aug. 2023</td>
<td>Chemistry (5246)</td>
<td>Available now</td>
</tr>
<tr>
<td>Earth and Space Sciences: Content Knowledge (5571)</td>
<td>Aug. 2023</td>
<td>Earth and Space Sciences (5572)</td>
<td>Available now</td>
</tr>
<tr>
<td>General Science: Content Knowledge (5435)</td>
<td>Aug. 2023</td>
<td>General Science (5436)</td>
<td>Available now</td>
</tr>
<tr>
<td>Library Media Specialist (5311)</td>
<td>Aug. 2023</td>
<td>School Librarian (5312)</td>
<td>Available now</td>
</tr>
<tr>
<td>Physics: Content Knowledge (5265)</td>
<td>Aug. 2023</td>
<td>Physics (5266)</td>
<td>Available now</td>
</tr>
<tr>
<td>Professional School Counselor (5421)</td>
<td>Aug. 2023</td>
<td>School Counselor (5422)</td>
<td>Available now</td>
</tr>
</tbody>
</table>

- Effective immediately, HTSB will accept passing scores for the above replacement tests.
- HTSB will accept passing scores of the above Praxis exams that will be discontinued on August 1, 2023, up until July 31, 2023.
- HTSB will notify its State Approved Teacher Education Providers (SATEP) of the updated Praxis exams.

**Rationale/Background:**

The Educational Testing Service (ETS) keeps the content of the Praxis tests up to date and aligned with professionally accepted standards. Tests are reviewed annually. They involve stakeholders in this process by asking them to nominate teachers and teacher educators to serve on Test Development Standing Committees and National Advisory Committees (NACs).

ETS actively recruits educators, educators from educational preparation programs at universities and colleges, organizational representation, and other stakeholders with the content and teaching backgrounds from across the nation.

See attached reports for each replacement content test.

**Submitted by:** Branden Kawazoe

**Referred to:** Teacher Education Committee
Purpose:
- To address the new national science standards

Standards:
- 2020 National Science Teacher Association (NSTA) Teacher Preparation Standards, now including the new Next Generation Science Standards (NGSS)
- State science standards were also considered

Overall Design Changes:
- One half or more of the test questions now integrate a Science and Engineering Practice from the Next Generation Science Standards. The previous test included questions that integrated only some of the Science and Engineering Practices and did not have a prescribed percentage included in the test specifications.
- One quarter to one third of the test questions now assess content applied to a Task of Teaching of Science. This change does not include science pedagogy.

Weightings:
- Biology topics are much the same as the previous test. However, Category I, which includes biology topics from II thru V, but in a different context, was given less weight, and more weight was given to Categories II, III, and V.
- Number of Score Categories were reduced from six to five with some changes in weighting of content

<table>
<thead>
<tr>
<th>%</th>
<th>5236 Biology</th>
<th>%</th>
<th>5235 Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>13%</td>
<td>I. Nature and Impact of Science and Engineering</td>
<td>24%</td>
<td>I. Nature of Science: Scientific Inquiry, Methodology, Techniques, and History</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VI. Science, Technology, and Social Perspectives</td>
</tr>
<tr>
<td>22%</td>
<td>II. Cell Biology: Cell Structure and Function</td>
<td>20%</td>
<td>II. Molecular and Cellular Biology</td>
</tr>
<tr>
<td>26%</td>
<td>III. Genetics and Evolution</td>
<td>20%</td>
<td>III. Genetics and Evolution</td>
</tr>
<tr>
<td>20%</td>
<td>IV. Diversity of Life and Organismal Biology</td>
<td>20%</td>
<td>IV. Diversity of Life and Organismal Biology</td>
</tr>
<tr>
<td>19%</td>
<td>V. Ecology: Organisms and Environment</td>
<td>16%</td>
<td>V. Ecology: Organisms and Environments</td>
</tr>
</tbody>
</table>

Time:
- The timing of the test remains at 2 hours and 30 minutes.

Organizations involved in the Redesign Work: National Science Teacher Association (NSTA)
Purpose:
- To address new national science standards

Standards:
- 2020 National Science Teacher Association (NSTA) Teacher Preparation Standards, now including the new Next Generation Science Standards (NGSS)
- State science standards were also considered

Overall Design Changes:
- One half or more of the test questions now integrate a Science and Engineering Practice from the Next Generation Science Standards. The previous test included questions that integrated only some of the Science and Engineering Practices and did not have a prescribed percentage included in the test specifications.
- One quarter to one third of the test questions now assess content applied to a Task of Teaching of Science. This change does not include science pedagogy.

Weightings:
- Chemistry topics are much the same as the previous test. However, Category I, which includes chemistry topics from II to V, but in a different context, was given less weight, and more weight was given to Categories III, IV and V.
- Number of Score Categories were reduced from seven to five with some changes in weighting of content

<table>
<thead>
<tr>
<th>%</th>
<th>5246 Chemistry</th>
<th>%</th>
<th>5245 Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>14%</td>
<td>I. Nature and Impact of Science and Engineering</td>
<td>24%</td>
<td>VI. Scientific Inquiry and Social Perspectives of Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VII. Scientific Procedures and Techniques</td>
</tr>
<tr>
<td>25%</td>
<td>II. Principles and Models of Matter and Energy</td>
<td>26%</td>
<td>I. Basic Principles of Matter and Energy; Thermodynamics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>II. Atomic and Nuclear Structure</td>
</tr>
<tr>
<td>20%</td>
<td>III. Chemical Composition, Bonding, and Structure</td>
<td>15%</td>
<td>III. Nomenclature; Chemical Composition; Bonding and Structure</td>
</tr>
<tr>
<td>23%</td>
<td>IV. Chemical Reactions and Periodicity</td>
<td>20%</td>
<td>IV. Chemical Reactions; Periodicity</td>
</tr>
<tr>
<td>18%</td>
<td>V. Solutions and Acid-Base Chemistry</td>
<td>15%</td>
<td>V. Solutions and Solubility; Acid-Base Chemistry</td>
</tr>
</tbody>
</table>

Time:
- The timing of the test remains at 2 hours and 30 minutes.

Organizations involved in the Redesign Work: National Science Teacher Association (NSTA)
Purpose:
- To address the new national science standards

Standards:
- 2020 National Science Teacher Association (NSTA) Teacher Preparation Standards, now including the new Next Generation Science Standards (NGSS)
- State science standards were also considered

Overall Design Changes:
- One half or more of the test questions now integrate a Science and Engineering Practice from the Next Generation Science Standards. The previous test included questions that integrated only some of the Science and Engineering Practices and did not have a prescribed percentage included in the test specifications.
- One quarter to one third of the test questions now assess content applied to a Task of Teaching of Science. This change does not include science pedagogy.

Weightings:
- Earth and Space Sciences topics included in the questions are much the same as the previous test in terms of specific topics. However, the relative weighting of the nature and impact of science and engineering was increased as the National Advisory Committee (NAC) considered the greater emphasis on these topics in the classroom. The weighting of the basic principles of matter and energy was also increased, and this topic area was merged into Category II. The increase in these two topic areas, in addition to the smaller increases in the percentages of the two other categories, resulted in a larger decrease in the weighting of the physical geology and historical geology topics in Category II.
- Number of Score Categories were reduced from six to four with some changes in weighting of content

<table>
<thead>
<tr>
<th>%</th>
<th>5572 Earth and Space Sciences</th>
<th>%</th>
<th>5571 Earth and Space Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>15%</td>
<td>I. Nature and Impact of Science and Engineering</td>
<td>12%</td>
<td>I. Basic Scientific Principles and Processes</td>
</tr>
<tr>
<td>45%</td>
<td>II. Earth’s Processes and Materials</td>
<td>54%</td>
<td>II. Tectonics and Internal Earth Processes III. Earth Materials and Surface Processes IV. History of the Earth and its Life-Forms</td>
</tr>
<tr>
<td>22%</td>
<td>III. Earth’s Hydrosphere and Atmosphere</td>
<td>19%</td>
<td>V. Earth’s Atmosphere and Hydrosphere</td>
</tr>
<tr>
<td>18%</td>
<td>IV. Astronomy</td>
<td>15%</td>
<td>VI. Astronomy</td>
</tr>
</tbody>
</table>

Time:
- The timing of the test remains at 2 hours and 30 minutes.

Organizations involved in the Redesign Work: National Science Teacher Association (NSTA)
Purpose:
- To address the new national science standards

Standards:
- 2020 National Science Teacher Association (NSTA) Teacher Preparation Standards, now including the new Next Generation Science Standards (NGSS)
- State science standards were also considered

Overall Design Changes:
- One half or more of the test questions now integrate a Science and Engineering Practice from the Next Generation Science Standards. The previous test included questions that integrated only some of the Science and Engineering Practices and did not have a prescribed percentage included in the test specifications.
- One quarter to one third of the test questions now assess content applied to a Task of Teaching of Science. This change does not include science pedagogy.

Weightings:
- General Science topics are much the same as the previous test. However, Category I, which includes topics from Categories II, III, and IV, but in a different context, was given less weight, and more weight was given to Categories II, III, and IV.
- Number of Score Categories were reduced from five to four with some changes in weighting of content

<table>
<thead>
<tr>
<th>%</th>
<th>5436 General Science</th>
<th>%</th>
<th>5435 General Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>16%</td>
<td>I. Nature and Impact of Science and Engineering</td>
<td>24%</td>
<td>I. Scientific Methodology, Techniques, and History</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>V. Science, Technology, and Society</td>
</tr>
<tr>
<td>41%</td>
<td>II. Physical Science</td>
<td>42%</td>
<td>II. Physical Science</td>
</tr>
<tr>
<td>29%</td>
<td>III. Life Science</td>
<td>22%</td>
<td>III. Life Science</td>
</tr>
<tr>
<td>24%</td>
<td>IV. Earth and Space Science</td>
<td>22%</td>
<td>IV. Earth and Space Science</td>
</tr>
</tbody>
</table>

Time:
- The timing of the test remains at 2 hours and 30 minutes.

Organizations involved in the Redesign Work:
- National Science Teacher Association (NSTA)
Purpose:
- To address an emphasis, change in the new national science standards

Standards:
- 2020 National Science Teacher Association (NSTA) Teacher Preparation Standards, now including the new Next Generation Science Standards (NGSS)
- State science standards were also considered

Overall Design Changes:
- One half or more of the test questions now integrate a Science and Engineering Practice from the Next Generation Science Standards. The previous test included questions that integrated only some of the Science and Engineering Practices and did not have a prescribed percentage included in the test specifications.
- One quarter to one third of the test questions now assess content applied to a Task of Teaching of Science. This change does not include science pedagogy.

Weightings:
- Physics topics included in the questions are much the same at the previous test in terms of specific topics. However, the relative weighting of some matter and energy relationships were reduced somewhat as the National Advisory Committee (NAC) deemed some of those topics to be more relevant to a chemistry test. This decrease resulted in a very small percentage increase in each of Categories III, IV, and V.
- Number of Score Categories were reduced from six to five with some changes in weighting of content

<table>
<thead>
<tr>
<th>%</th>
<th>5266 Physics</th>
<th>%</th>
<th>5265 Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>12%</td>
<td>I. Nature and Impact of Science and Engineering</td>
<td>12%</td>
<td>VI. Scientific Inquiry, Processes, and Social Perspectives</td>
</tr>
<tr>
<td>15%</td>
<td>II. Principles and Models of Matter and Energy</td>
<td>24%</td>
<td>IV. Heat, Energy, and Thermodynamics</td>
</tr>
<tr>
<td>35%</td>
<td>III. Mechanics</td>
<td>32%</td>
<td>I. Mechanics</td>
</tr>
<tr>
<td>21%</td>
<td>IV. Electricity and Magnetism</td>
<td>19%</td>
<td>II. Electricity and Magnetism</td>
</tr>
<tr>
<td>17%</td>
<td>V. Waves</td>
<td>13%</td>
<td>III. Optics and Waves</td>
</tr>
</tbody>
</table>

Time:
- The timing of the test remains at 2 hours and 30 minutes.

Organizations involved in the Redesign Work: National Science Teacher Association (NSTA)
5312 School Librarian

Purpose:
- Aligned the test with the updated standards and current terminology/trends in the field.

Overall Design Changes:
- Updated terminology
- Minor changes to category weightings

Standards:
- 2017 National School Librarian Standards (School Library Alignments
- 2019 ALA/AASL/CAEP School Librarian Preparation Standards

Weightings:
- Category I. Program Administration: Went from 18% to 20%
- Category II. Organization and Access: Went from 21% to 19%
- Category III. Information Access in the Learning Environment: Went from 21% to 20%
- Category IV. Teaching and Learning: Went from 28% to 29%
- Category V. Professional Development, Leadership, and Advocacy: Unchanged at 12%

Time:
- Unchanged (120 minutes)

Change in Approach of the Assessment:
- Change in weightings will shift focus of assessment to place more emphasis on information access, collaborating with stakeholders, and instructional interactions with students.
- The terms Library Media Specialist and Library Media Center were updated to School Librarian and School Library to reflect current terminology used in the field.
- Name changes were made to the following categories to reflect current emphasis in the field on student focused librarianship and to both access to information and physical access to materials in the school library:
  - Category II: from Collection Development to Organization and Access
  - Category III: from Information Access and Delivery to Information Access in the Learning Environment
  - Category IV: Learning and Teaching to Teaching and Learning
Any Addition or Subtraction of content:
  • No changes were made to the overall design of the assessment.

Organizations Involved in the Redesign Work:
  • American Association of School Librarians (AASL)
Praxis: School Counselor

5422 Launches Sept. 2022

Purpose:

• Change in standards

Overall Design Changes:

• The test title and codes changed: *Professional School Counselor to 5422 School Counselor*
• Changes in category names:
  o Cat 1 Foundations > Define
  o Cat 2 Delivery of Services > Deliver
  o Cat 3 Management > Manage
  o Cat 4 Accountability > Assess
• Changes in category weightings (See Weightings)

Weightings:

• Cat 1 (Define) went from 18% to 25%
• Cat 2 (Deliver) went from 45% to 40%
• Cat 3 (Manage) went from 15% to 20%
• Cat 4 (Assess) went from 22% to 15%

Timing:

No change in the approach of the assessment: SR only

Standards:

• ASCA National Model (4th Edition)

Organizations involved in the Redesign Work:

• American School Counselor Association (ASCA)