

Missouri EOC TAC Meeting: Blueprints & Alignment

August 11–12, 2016



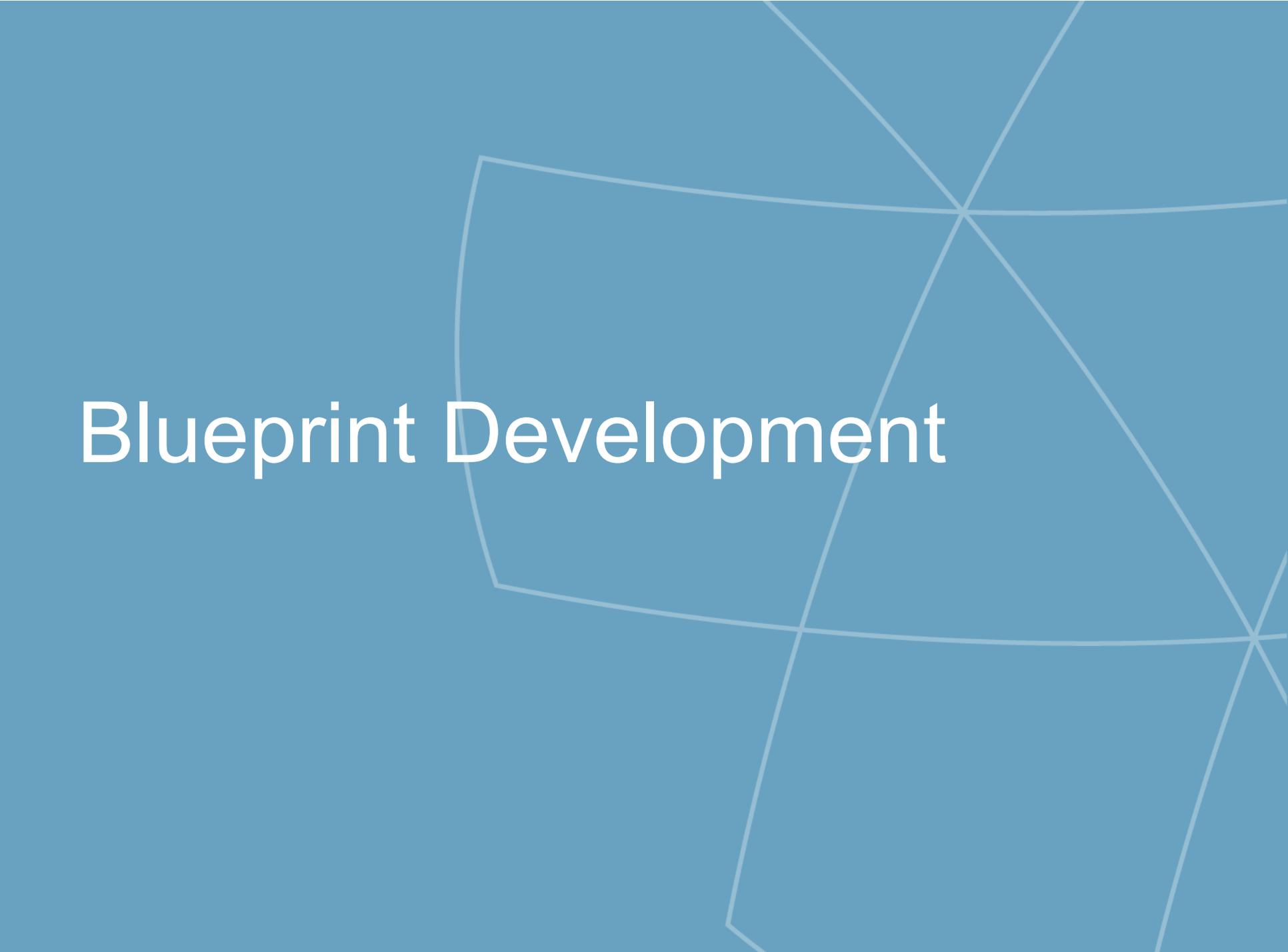
Agenda

- Blueprint development
- Item alignment plan

Overall Scope

- Two sets of work:
 1. Develop the draft blueprints and conduct an educator blueprint review meeting
 2. Item alignment plan and analysis
- MO EOC assessments included in both sets of work:
 - Algebra I
 - Algebra II
 - Geometry
 - Biology
 - Physical Science
 - English I
 - English II
 - American History
 - U.S. Government

Blueprint Development

The background is a solid blue color. Overlaid on this are several thin, light blue lines that form a complex, abstract geometric pattern. These lines intersect to create various shapes, including triangles and polygons, some of which are partially cut off by the edges of the frame. The lines are thin and have a consistent color throughout.

Blueprint Development

- Goal: Develop new MO EOC assessment blueprints using the newly developed standard sets
- Procedure followed to date:
 - Analyzed the previous and new standards and the crosswalks between these standard sets.
 - Considered and applied points per any new reporting categories in the new standards.
 - Analyzed the existing blueprints.
 - Studied closely related course blueprints from other sources.
 - Researched time constraints and requirements on current MO EOC assessments.

Summary of Proposed Blueprints

- Reflect the depth and breadth of the Missouri Learning Standards
- Are based on:
 - The comparison of the new and previous standards
 - Integrating best practices with regard to coverage necessary to yield reliable information regarding:
 - Student mastery of concepts/ideas
 - Time allotted for assessments
 - Potential grouping of items in sets
 - Interaction of items measuring similar/different skills
- Include information regarding the suggested reporting categories and the number of items and score points for each suggested reporting category

Blueprint Development

- Next Steps:

1. Gather feedback from TAC committee on approach and any detail considerations.
2. Meet formally with DESE after TAC to determine updates and changes needed.
3. Discuss with DESE if any other expert reviews are necessary.
4. Present to Educator review panels to gather feedback and inputs from the field.
5. Reconcile review results with DESE.

Educator Blueprint Review

- Proposed plan for blueprint review panels:
 - Questar will provide impartial moderation and will facilitate the educator panels.
 - DESE will be onsite and available to answer policy questions and/or provide clarifications as necessary but will not be members of the panel.

Panel	*#Questar Moderators	#Educators	#Days
Algebra I, Algebra II, Geometry	1	3–4	2
English I, English II	1	3–4	**1.5 – 2
Am. History, U.S. Government	1	3–4	**1.5 – 2
Biology, Physical SC	1	3–4	**1.5 – 2

*A floating assessment expert and program manager from Questar will also attend.

**This can be finalized after discussions and after the crosswalks and current blueprints are reviewed.

Educator Blueprint Review

- Blueprint review process:
 1. An introduction to the task will be provided to the full group or content-based groups by agreed-upon staff between DESE and Questar.
 2. The draft blueprints will be presented with the necessary related materials.
 3. Educators will be provided with an ability to electronically enter feedback into logs for provision of their specific feedback for each content area.
 4. Moderators will lead panels through a review of the blueprints, and the panels will determine if individual review time is required or if only open discussion is necessary.

Educator Blueprint Review

- Blueprint review process (cont.):
 5. Open discussion will be encouraged, and panelists will be reminded to capture/edit their thoughts as the moderator captures the panelists' thoughts that will be projected for all panelists to see.
 6. Comments will be reviewed so that every point of view has been captured. This will be done prior to committee dismissal.
 7. The overall mode of the panel discussion will portray the need for valuable educator input, ensure that panelists are aware of the work that has been done, and let them know what to expect as next steps.
- Next steps: All feedback will be shared with DESE who will then facilitate the creation of the final blueprints.

Item Alignment Plan

The background is a solid blue color. Overlaid on this are several thin, light blue lines that form a complex geometric pattern. These lines intersect to create various shapes, including triangles and quadrilaterals. One prominent shape is a large, irregular polygon that is roughly centered on the page. The lines are thin and have a consistent color, creating a subtle, modern aesthetic.

Proposed Item Alignment Plan

- Two goals:
 - Review the crosswalks from the old standards to the new Missouri Learning Standards
 - Align items to the new standards for the MO EOC assessments
- Two phases of the study:
 - The evaluation criteria for conducting the item alignment analysis
 - The actual development and reporting of the item alignment analysis

Evaluation Criteria

- A set of criteria will be used to match items aligned to the old standards to the new standards (i.e., to determine matches, or sets of decisions that pair each item with the single best objective from an identified set of standards).
- This matching is necessary in order to:
 - Establish the number of items that have a match
 - Determine the areas of the blueprint that have item matches
 - Identify the standards in the blueprint that do not have item matches

Evaluation Criteria

- Questar proposes to use the following criteria for reviewing the crosswalks and determining which items are eligible for realignment.
 - Review of the crosswalks and notation of the following:
 - One-to-one alignment
 - One-to-many alignment
 - Many-to-one alignment
 - Suggestions or comments about the crosswalks that may impact the alignment task.
 - Strength of match to the standards (i.e., full alignment, partial alignment)
 - Review of most recent classical statistics for each item

Evaluation Criteria

- Additional considerations made about alignment regarding the blueprints will include:
 - Each standard contains expectations that require varying levels of DOK. The items aligned to the standard should reflect this variation.
 - Standards often contain more than one goal that is to be measured. The items aligned to the standard should span these goals whenever possible to support adequate coverage within a single blueprint.
 - The number of points a specific item may need to adequately assess a standard and that impact to the blueprint.
 - The item types written to a standard should represent the need of the standard and allow students to engage with the item in a way that measures the standard as completely as possible.

Items in this Study

Content Area	Item Type	#Items
Algebra I	MC	450
	PE	9
Algebra II	MC	450
Geometry	MC	280
Biology	MC	282
	PE	72
Physical Science	TBD	TBD
English I	MC	245
	WP	7
English II	MC	423
	WP	9
Am. History	MC	300
Government	MC	300
	Total	2,827