

MAC-CPTM Situations Project

Situation 01: Mathematical Concept (Template)

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Prompt

The prompt sets the stage for the mathematics of the situation by briefly describing an event from teaching practice. Teaching practice includes preparing, implementing, and reflecting on classroom instruction. The instruction can be either in secondary mathematics or in the preparation and professional development of secondary teachers.

Commentary

The commentary serves as an advance organizer for the foci. It is structured as follows: What are the big mathematical ideas, how do they relate to school mathematics, and what representational ideas/conventions/concepts are important to the ideas?

Mathematical Foci

Mathematical Focus 1

Italicized mathematical statement.

A focus presents a particular aspect of mathematical knowledge for teaching at the secondary level that is relevant to the prompt. Mathematical knowledge for teaching includes concepts, processes, representations, solution methods, interpretations, types of reasoning, properties of mathematical objects, and definitions. A brief, italicized statement that captures the mathematical idea of the focus should appear at the beginning of the focus.

Mathematical Focus 2

Italicized mathematical statement.

Description of focus including static figures.

Mathematical Focus 3

Italicized mathematical statement.

Description of focus including static figures..

Post Commentary

The post commentary is optional. If post-secondary mathematics is in the foci and has not yet been commented on, state that mathematics in the post-commentary. Include observations that connect foci that only make sense after the foci have been presented.

References

The reference list provides references in APA format for books, articles, curriculum materials, URLs from which any ideas or quotes are drawn and cited. (There may not be any.)