HP Prime helps align teachers with Common Core standards for Mathematical Practice

Standards for Mathematical Practice

The Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop in their students. These practices rest on important "processes and proficiencies" with longstanding importance in mathematics education. The first of these are the NCTM process standards of problem solving, reasoning and proof, communication, representation, and connections. The second are the strands of mathematical proficiency specified in the National Research Council's report "Adding It Up": adaptive reasoning, strategic competence, conceptual understanding (comprehension of mathematical concepts, operations and relations), procedural fluency (skill in carrying out procedures flexibly, accurately, efficiently and appropriately), and productive disposition (habitual inclination to see mathematics as sensible, useful, and worthwhile, coupled with a belief in diligence and one's own efficacy).

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

HP Prime

HP Prime helps teachers align with the Common Core standards for Mathematical Practice in a number of ways.

MP1 and MP5 - Easily switch between types of mathematical representations

MP3 - Using technology to make conjectures and construct viable arguments

1 Common Core State Standards Initiative, 2013
**HP Wireless Connectivity**

MP1 and MP3 – Enhance mathematical discourse

**HP Prime Apps**

MP7 and MP8 – Looking for structure in data, illustrate relationships graphically

MP4, MP5 and MP7 – Find interactions between objects through experimentation

**Summary**

HP Prime provides tools to allow math teachers to improve their overall effectiveness in alignment with the Common Core State Standards. Additionally, educators can download the HP Prime emulator for free by visiting hp.com/go/calculatoremulators.

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