

THE FLIPPED LEARNING SERIES

flipped learning

for

Maths

INSTRUCTION

JONATHAN BERGMANN

AARON SAMS

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I can write radicals as rational exponents and vice versa plus simplify expressions

Evaluate without a calculator $(-32)^{-3/5}$

Simplify

$$\sqrt[3]{5} \cdot \sqrt{5^3} \quad \frac{2c^{1/8}}{c^{-1/16} \cdot c^{1/8}} \quad \frac{ab}{\sqrt[3]{c}} \quad \left(a^{-2/3}\right)^{-1/6}$$

FIGURE 6.1 A sample question for students following a coverage task.

3. Analyse student responses.
4. Group students based on response.
5. Put students into groups of between two and four students in which not all of the students have chosen the same answer. Cue them to find someone with a different answer and try to defend their answers with reasoning. During this conversation, students try to understand the question together. To see the students discussing the question in Figure 6.1 during their peer instruction, visit bit.ly/peermathflip2.
6. Begin Round 2 of questioning. Re-poll the students. You should expect to see a shift to the right answer after discussion.