
PoW IQ

“PoW IQ” stands for extracting the **I**nformation in the Problem of the Week and understanding the **Q**uestion.

Format: Whole-group brainstorming, individual brainstorming, or think-pair-share.

Step 1: Have each student make a table with three columns (or use the handout that follows).

Step 2: Ask each student to write (very succinctly) mathematical information from the problem, in the left column:

- ▶ What quantities are given?
- ▶ What terms are important?
- ▶ What constraints are given?

Step 3: Have each student write calculations or mathematical relationships they see in the middle column.

Step 4: Ask students to predict as much as they can about the final answer:

- ▶ What will the units of the solution be (what will be counted or measured)?
- ▶ What justification is needed, and/or what am I trying to prove?
- ▶ Can I figure out upper and lower bounds?
- ▶ Could the answer be negative? Could it be a noninteger?

Name: _____

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Information from the Problem (write as mathematically as you can)	Calculations or Mathematical Relationships	The Question and Predictions/ Considerations