

Context-Rich Problems: Solutions Outline

FOCUS the PROBLEM

Draw a picture of the situation including ALL the information given in the problem.

Question(s): What is the problem asking you to find?

Approach: Outline the approach you will use.

DESCRIBE the PHYSICS

Draw physics diagram(s) and define ALL quantities uniquely.

Which of your defined quantities is your Target variable(s)?

Quantitative Relationships: Write equations you will use to solve this problem.

PLAN the SOLUTION

Construct Specific Equations (Same Number as Unknowns)

EXECUTE the PLAN

Calculate Target Quantity(ies)

EVALUATE the ANSWER

Is Answer Properly Stated?

Is Answer Unreasonable?

Is Answer Complete?

(extra space if needed)

Check Units