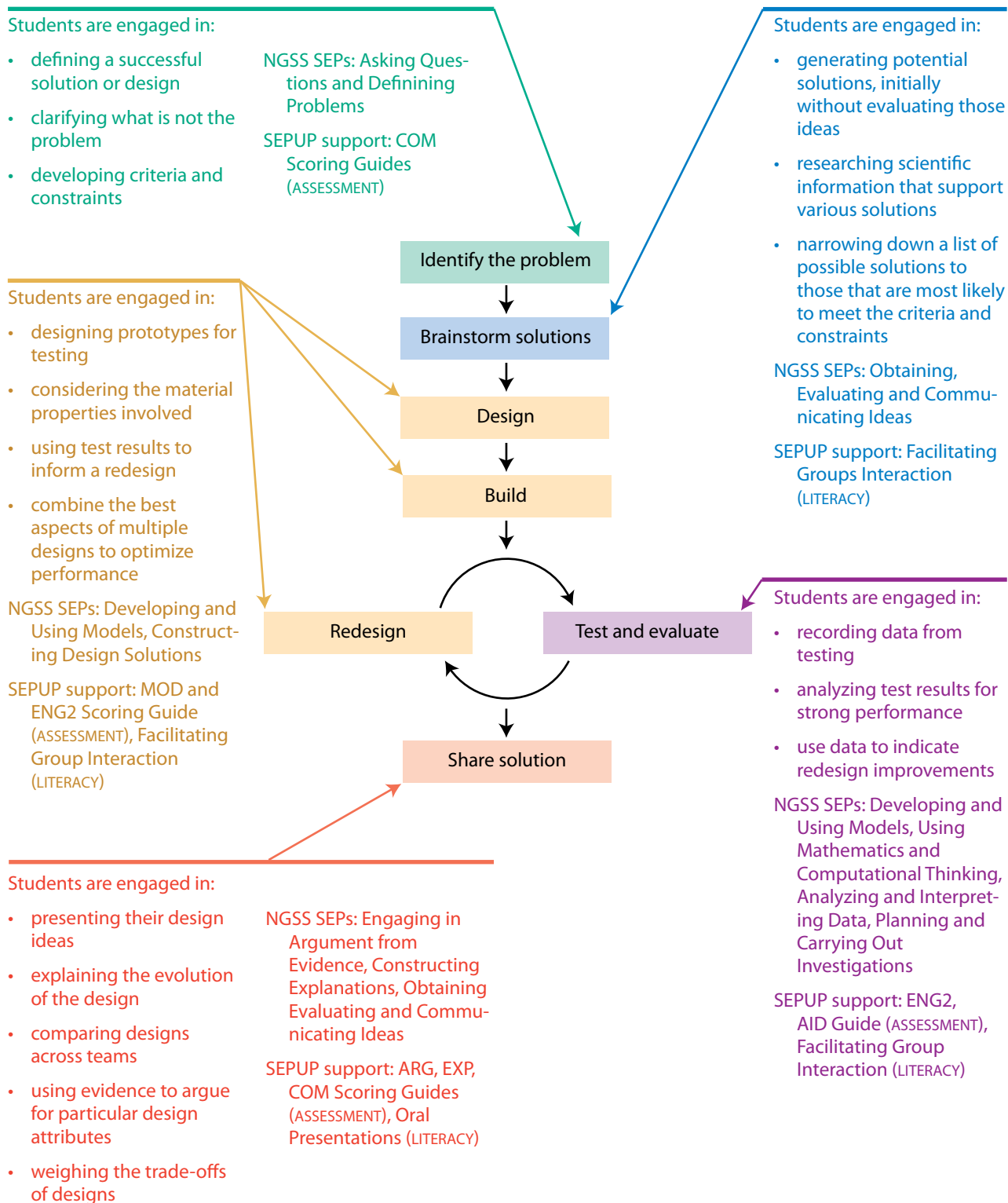


Engineering Design Process in the Classroom



ENGINEERING DESIGN SOLUTIONS revised (ENG2)

When to use this Scoring Guide:

This Scoring Guide is used when students design and refine solutions.

What to look for:

- Response includes a complete design relevant to the problem to be solved.
- Response includes evidence of how well the design meets criteria within the defined constraints.
- Response indicates how scientific ideas and concepts relate to the successful design.

Level	Description
Level 4 <i>Complete and correct</i>	The student <ul style="list-style-type: none"> • uses all appropriate steps of the engineering design cycle, AND • meets all of the criteria within the defined constraints, AND • uses a combination of scientific concepts, data, and trial and error, AND • communicates the process followed to optimize the design.
Level 3 <i>Almost there</i>	The student <ul style="list-style-type: none"> • uses all appropriate steps of the engineering design cycle, AND • meets all of the criteria within the defined constraints, AND • uses a combination of scientific concepts, data, and trial and error.
Level 2 <i>On the way</i>	The student <ul style="list-style-type: none"> • uses some of steps of the engineering design cycle, AND • meets all of the criteria within the defined constraints, AND • uses a combination of scientific concepts, data, and trial and error.
Level 1 <i>Getting started</i>	The student uses some of the steps of the engineering design cycle, BUT the design does not meet any of the criteria.
Level 0	The student proposes no design or an irrelevant design.
x	The student has no opportunity to respond.