

Lay out evidence of knowledge construction on the wall

Pre-reading	Copies of actual pages	Notes: Direct translation	Cribsheets	Test drive																										
<p>In the section I am about to read, I think that the author(s) will present the following 1-2 big idea(s).</p> <ul style="list-style-type: none"> Big idea 1: _____ Big idea 2: _____ 	<p>For each sentence,</p> <ol style="list-style-type: none"> Read individual sentence out loud. Highlight any key vocabulary terms or quantities. Copy any newly introduced vocabulary and definitions into notes. Add any new SiQuENC items to notes. <ol style="list-style-type: none"> Si – drawings of situations Qu – Graphs, bar charts, dot plots, vector diagrams E – Equations and inequalities N – Algebraic methods, analysis methods C – Words (vocabulary and definitions) 	<p>Illustrate the discussion using SiQuENC Copy every figure and generate each figure that is implied but not provided.</p> <p>For each (in)equation appearing in a fundamental definition or box, visually digest each meaning represented by the (in)equation.</p> <ol style="list-style-type: none"> Choose a pair of important variables in the relationship. Sketch at least two examples in which one variable is changed and the consequent change (or lack of change) in the other variable is changed. Formats for illustrating relationships include <ol style="list-style-type: none"> Comic strips Logical contingency charts <table border="1" style="margin-left: 20px;"> <tr> <td></td> <td>A</td> <td>Not A</td> </tr> <tr> <td>B</td> <td>Possible</td> <td>Impossible</td> </tr> <tr> <td>Not B</td> <td>Impossible</td> <td>Possible</td> </tr> </table> Repeat until every important variable in the relationship has been visualized. 		A	Not A	B	Possible	Impossible	Not B	Impossible	Possible	<p>Particularly useful for quantitative sciences:</p> <p>SiQuENC chart</p> <table border="1" style="margin-left: 20px;"> <tr> <td>Si</td> <td>Qu</td> <td>E</td> <td>N</td> <td>C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Lists of problem-solving steps</p> <ol style="list-style-type: none"> Do this Then do that Then do that . . . <p>Problem-solving flowcharts</p> <pre> graph TD Q1 --- Y[Steps] Q1 --- N[Steps] </pre> <hr/> <p>Particularly useful for humanities:</p> <p>Concept map</p>	Si	Qu	E	N	C											<p>Do the following for a couple problems:</p> <p>Problem:</p> <hr/> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">Simulation of solution as would be attempted by a robot relying on deductive reasoning and your cribsheets.</td> <td style="width: 50%; vertical-align: top;">Answer key solution (can photocopy/print)</td> </tr> </table> <hr/> <p>After making red-pen marks in both solutions, determine</p> <ol style="list-style-type: none"> What can be improved in your cribsheets. What did your cribsheets help you to do better than was done in the “official” solution? 	Simulation of solution as would be attempted by a robot relying on deductive reasoning and your cribsheets.	Answer key solution (can photocopy/print)
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