

SUVAT rubric

| | I do it well | I usually get it right | I often get it wrong | Throw me a buoy |
|---|--|--|--|--|
| Identifying known variables | I always recognize all of the correct known variables from the text, and I summarize them in a list. | Most of the time I can recognize all of the correct known variables and I summarize them on a list with the correct values. | I usually can't recognize one or more of the known variables and/or I don't summarize them on a list, or if I do list them, I often assign the wrong value to variables. | I can't recognize known variables from the text |
| Identifying unknown variables | I always know which variables are undetermined and which ones I will need to calculate. | I usually know what variable the problem wants me to calculate. | Most of the time I have difficulty identifying which variable I should be calculating. | I can't figure out which variable is unknown and what I should be calculating. |
| Selecting the correct equations to use | I always choose the correct equation from the given known and unknown variables. | Sometimes I'm insecure about the equation I selected from the given known and unknown variables. | Even if I have the correct known and unknown variables I often don't know which equation to use. | I choose an equation randomly. |
| Solving the selected equation for the unknown variable | I can isolate the unknown variable with the minimum algebraic steps. | I can isolate the unknown variable after a lot of effort. | I often have problems isolating the unknown variable but I can do it with some help to overcome the algebraic steps. | Should I eat this alphabet soup? |
| Substituting the known variables in the equation | I always substitute the known variables by their correct value. | Sometimes I assign to wrong values to some of the known variables. | I'm often confused about what number goes where. | I guess what numbers should replace what letters. |
| Calculating the unknown variable | I rarely make arithmetic mistakes and I'm proficient in the use of my calculator. | I usually don't make arithmetic mistakes and/or sometimes I make a mistake when typing in my calculator. | I make a significant amount of arithmetic mistakes and/or I often mess up typing in my calculator. | I make a lot of arithmetic errors and I'm usually confused about how to use my calculator. |
| Verifying my result | I plug in my result in the original equation and/or I used a different equation to calculate one of the known variables. | I don't always verify my results, when I do I plug in the value I calculated in the original equation to calculate one of the known variables. | I usually don't verify my results and/or I'm not sure how to do it. | I never confirm my result and/or I don't know how to do it. |
| Including proper units and significant digits with the result | I always round the final result to the proper number of significant figures and I report the result with the correct unit. | Most of the time, I round the final result to the proper number of significant figures and I report the result with the correct unit. | I often forget to round the final result to the correct number of significant figures, and I do not remember the unit. | I do not know how to determine the number of significant figures in a measured value. |

