

Chapter 6 Problem Wrap-Up Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Gather relevant information related to radiation and mathematical modelling. 	Demonstrates limited skill in information gathering and provides few details about one topic.	Demonstrates some skill in information gathering and provides some details about one or two topics.	Demonstrates considerable skill in information gathering and provides many details about two topics.	Demonstrates thorough skill in information gathering and provides many details about two or more topics.
Thinking <ul style="list-style-type: none"> Prepare a plan to solve the problem. Carry out the plan. 	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
Communication <ul style="list-style-type: none"> Clear explanations and full justifications. Correct use of mathematical conventions and language. Provide sources of information and comments on it currency. 	Does not clearly explain or justify mathematical applications. Uses mathematical language and conventions correctly in some of the report. No sources are provided.	Explains and justifies mathematical applications somewhat. Uses mathematical language and conventions correctly throughout most of the report. Provides one source, which is not appropriately cited or not current.	Explains and justifies mathematical applications fully. Uses mathematical language and conventions correctly throughout the report. Provides several sources, which are cited appropriately and are current.	Explains, justifies, and shows insight into the complexities of the mathematical applications. Uses mathematical language and conventions correctly throughout the report. Provides several sources, which are clearly cited and are very current.
Application <ul style="list-style-type: none"> Choose appropriate information to include in report. 	Interprets the information ineffectively and has difficulty writing an effective report or creating problems.	Interprets the information somewhat effectively and has some difficulty writing an effective report or creating problems.	Interprets the information with considerable effectiveness and has little difficulty writing an effective report or creating problems.	Interprets the information with a high degree of effectiveness and has no difficulty writing an effective report or creating problems.

