

## ASSESSMENT CHECKLIST 6 Using Math in Science

	<b>Assessment</b>	
	<b>Self</b>	<b>Teacher's</b>
<b>Understanding the Problem</b>		
1. The problem is clearly defined by being restated.	<input type="checkbox"/>	<input type="checkbox"/>
2. The given information is identified.	<input type="checkbox"/>	<input type="checkbox"/>
3. Information that must be assumed is listed.	<input type="checkbox"/>	<input type="checkbox"/>
4. Information that must be obtained is listed.	<input type="checkbox"/>	<input type="checkbox"/>
5. Where appropriate, a clear diagram is drawn that shows the important elements of the problem.	<input type="checkbox"/>	<input type="checkbox"/>
<b>Solving the Problem</b>		
6. The algebraic formula(s) for the problem is listed.	<input type="checkbox"/>	<input type="checkbox"/>
7. The formula(s) is rearranged correctly to solve for the unknown quantity.	<input type="checkbox"/>	<input type="checkbox"/>
8. All values are labelled.	<input type="checkbox"/>	<input type="checkbox"/>
9. Appropriately labelled values are substituted into the final formula.	<input type="checkbox"/>	<input type="checkbox"/>
10. Appropriate arithmetic operations are used accurately.	<input type="checkbox"/>	<input type="checkbox"/>
11. Reasoning can be easily followed by the sequence of arithmetic operations.	<input type="checkbox"/>	<input type="checkbox"/>
12. The appropriate number of significant digits is used.	<input type="checkbox"/>	<input type="checkbox"/>
13. Scientific notation is correctly used for very large or very small numbers.	<input type="checkbox"/>	<input type="checkbox"/>
14. The answer is correct and labelled correctly.	<input type="checkbox"/>	<input type="checkbox"/>
15. The answer is appropriate according to the assumptions and reasoning used.	<input type="checkbox"/>	<input type="checkbox"/>
<b>Communicating the Result</b>		
16. A clear, concise statement of the problem, the strategy for the solution, and the answer are made. Math vocabulary is used correctly.	<input type="checkbox"/>	<input type="checkbox"/>
17. Where necessary, a labelled diagram is used to support the written statement.	<input type="checkbox"/>	<input type="checkbox"/>