

ASSESSMENT CHECKLIST 6**Using Math in Science**

| | Assessment | |
|---|--------------------------|--------------------------|
| | Self | Teacher's |
| Understanding the Problem | | |
| 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"/> |
| Solving the Problem | | |
| 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"/> |
| Communicating the Result | | |
| 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"/> |