**Conceptual Understanding**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning** | **Developing** | **Accomplished** | **Exemplary** |
| ***Has not demonstrated any of the criteria listed to the right*** | Demonstrates understanding of ***some*** the concepts covered in the unit | Demonstrates understanding of ***most*** the concepts covered in the unit | Demonstrates ***complete*** understanding of the concepts covered in the unit | Demonstrates ***complete*** understanding of the concepts covered in the unit ***including unfamiliar situations*** |

**Computational Reasoning**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning** | **Developing** | **Accomplished** | **Exemplary** |
| ***Has not demonstrated any of the criteria listed to the right*** | Work contains major errors or omissions | Work demonstrates some of the solution process | Work mostly demonstrates solution process | Work clearly and concisely demonstrates solution process\* |
| ***Has not demonstrated any of the criteria listed to the right*** | Correctly solves some problems | Correctly solves most problems | Correctly solves all familiar problems | Correctly solves all problems **including unfamiliar situations** |

**\* Includes: relevant formulae, diagrams, units and appropriate sig figs**

**Communication**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning** | **Developing** | **Accomplished** | **Exemplary** |
| ***Has not demonstrated any of the criteria listed to the right*** | Explanations are unclear and may include irrelevant information | Explanations are generally clear and may include some irrelevant information | Explanations are clear and concise | Explanations are clear and concise with no irrelevant information |
| ***Has not demonstrated any of the criteria listed to the right*** | Attempts to explain the problem using scientific reasoning | Explains the problem using some **faulty reasoning** | Explains the problem using **scientific reasoning** | Explains the problem using **correct scientific reasoning** |

**Conceptual Understanding**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning** | **Developing** | **Accomplished** | **Exemplary** |
| ***Has not demonstrated any of the criteria listed to the right*** | Demonstrates understanding of ***some*** the concepts covered in the unit | Demonstrates understanding of ***most*** the concepts covered in the unit | Demonstrates ***complete*** understanding of the concepts covered in the unit | Demonstrates ***complete*** understanding of the concepts covered in the unit ***including unfamiliar situations*** |

**Computational Reasoning**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning** | **Developing** | **Accomplished** | **Exemplary** |
| ***Has not demonstrated any of the criteria listed to the right*** | Work contains major errors or omissions | Work demonstrates some of the solution process | Work mostly demonstrates solution process | Work clearly and concisely demonstrates solution process\* |
| ***Has not demonstrated any of the criteria listed to the right*** | Correctly solves some problems | Correctly solves most problems | Correctly solves all familiar problems | Correctly solves all problems **including unfamiliar situations** |

**\* Includes: relevant formulae, diagrams, units and appropriate sig figs**

**Communication**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning** | **Developing** | **Accomplished** | **Exemplary** |
| ***Has not demonstrated any of the criteria listed to the right*** | Explanations are unclear and may include irrelevant information | Explanations are generally clear and may include some irrelevant information | Explanations are clear and concise | Explanations are clear and concise with no irrelevant information |
| ***Has not demonstrated any of the criteria listed to the right*** | Attempts to explain the problem using scientific reasoning | Explains the problem using some **faulty reasoning** | Explains the problem using **scientific reasoning** | Explains the problem using **correct scientific reasoning** |