

**Year 8 Microscope Assessment** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Total Marks: \_\_\_\_\_\_\_\_\_\_\_/23**

**Attempt all** of the following questions.

1. Provide information of 2 people that contributed to the development of the microscope by completing the table below: *(6 marks)*

|  |  |  |
| --- | --- | --- |
| Person | Date | Contribution-what did they do? |
|  |  |  |
|  |  |  |

1. Outline the main difference between how the light microscope and the electron microscope work. *(2 marks)*

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1. Explain the main difference between the TEM (Transmission) and the SEM (Scanning electron microscope) when looking at cells.  *(2 marks)*

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1. Provide two reasons why microscopes are useful. *(2 marks)*

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1. List any 3 safety rules to be considered when using a microscope. *(3 marks)*

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1. Describe what happens to an image when viewed under a microscope. *(2 marks)*

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1. Complete the following table for a standard light microscope : *(6 marks)*

|  |  |  |
| --- | --- | --- |
| Eye Piece/ Ocular lens | Objective lens | Total Magnification |
| 10 x |  |  |
| 10 x |  |  |
| 10 x |  |  |