

Year End Review

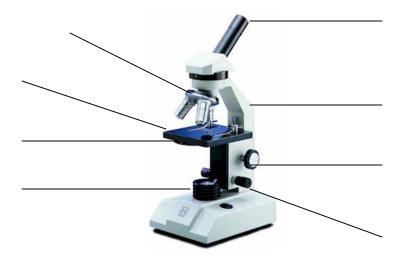
Unit 2 – Cells and Systems

Complete each of the following questions, relating to the specific learner outcomes, covered this year in Grade 8. The questions in this review reflect what you should have mastered and will be tested on in the **Final Achievement Exam**. The answers will be covered in class.

Part 1 – Characteristics of Living Things

| What are the basic functions of all living things, and what are the structures that enable organisms to perform those functions? (p. 98) |
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| How are living organisms organized. (p. 100-101) |
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| Part 2 – The Microscope |
| Describe changes that took place in the development of the microscope over time. |
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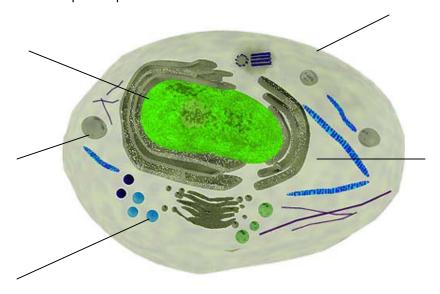
What are the main parts of the microscope? (p.107) (Label as many parts as you can.)



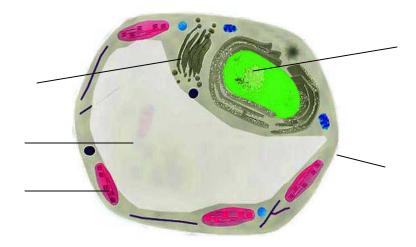
| Describe how to ca | lculate the field o t | f view. (p.111) | | |
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Part 3 – Cells

Identify the main component parts of the **animal cell**.



Identify the main component parts of the plant cell



Part 4 – Cell Processes

| What is a selectively permeable membrane ? (p.128) |
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| Describe diffusion . (p.129) |
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| Describe osmosis . (p.130) |
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| What is transpiration ? (p.135) |
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| Explain how a plant transports fluids, from the roots to the leaves. |
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Part 5 – Cell Specialization

Identify and describe the differences between different specialized cells. (p.138) Muscle Skin (epithelial) Bone (connective) Nerve What are the primary advantages of multi-cellular organisms (compared to unicellular organisms)? Describe the levels of cellular organization in a multi-cellular organism. (p.140)

Part 6 – Body Systems

Identify the important parts (structures) of each of the body systems and describe how each body system has a particular function. (p.153)

| Body System | Structures (Parts) | Function of System |
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Part 7 – A healthy life style leads to a healthy body How can you keep each of your body systems healthy? What disorders are common in each of the body systems? Respiratory **Digestive** Nervous **Excretory** Skeletal Muscular What **life style choices** should be made if we want healthy bodies?