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| **Science 8****Cell Unit Review** | Name:Date:Block: |

Are you **B**eginning, **D**eveloping, or **A**ccomplished at each of the following learning goals? Go through the check list and mark each row as “B”, “D”, or “A” based on your level of understanding. **Use the “B”s as areas to focus on when you’re studying!**

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| **KNOW** |
| **B** | **D** | **A** | **LEARNING GOAL** |
|  |  |  | I can name the characteristics of living things |
|  |  |  | I can describe the three principles of the cell theory |
|  |  |  | I can explain the main differences between prokaryotic & eukaryotic cells |
|  |  |  | I can describe the functions of eukaryotic (plant & animal) cell structures  |
|  |  |  | I can describe how to focus a microscope by referring to specific parts |
|  |  |  | I can define the term **microorganism** |
|  |  |  | I can define **pathogen** and give examples of different microorganisms that are pathogens (or not) |
|  |  |  | I can describe how pathogens spread |
|  |  |  | I can explain what the first, second, and third lines of defense are in the body |
|  |  |  | I can describe the difference between a vaccine and an antibiotic |
|  |  |  | I can describe the difference between an epidemic and a pandemic |

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| **DO** |
| **B** | **D** | **A** | **LEARNING GOAL** |
|  |  |  | I can identify if something is living or non-living using the characteristics of living things |
|  |  |  | I can identify if a cell is prokaryotic or eukaryotic if given its characteristics |
|  |  |  | I can identify cell structures on diagrams of plant, animal, and bacterial cells |
|  |  |  | I can compare and contrast the structure of plant, animal, and bacterial cells |
|  |  |  | I can focus a microscope & calculate total magnification with a given objective lens |
|  |  |  | I can compare the first and second lines and third lines of defense  |
|  |  |  | I can explain how pathogens, antigens, antibodies, and white blood cells interact as part of the immune response |

1. List the 5 characteristics of living things.
2. An explorer from another galaxy has arrived on Earth and believes cars are living things.
	1. Which characteristic(s) of a living thing would a car show?
	2. How would you explain that a car is not a living thing?
3. The coarse focus knob on a microscope should be used with which objective lens(es)?
4. Label the parts of the microscope.

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| a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_e. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_f. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_g. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Macintosh HD:Users:teacher:Desktop:Screen Shot 2016-01-24 at 2.58.01 PM.png |

1. Animal cell vs. plant cell.
	1. Which two organelles do plants have that animals do not?
	2. What are their functions?
2. Summarize the 3 key points of the cell theory.
3. What is the difference between a prokaryotic and eukaryotic cell?
4. Describe one difference between bacteria and viruses.
5. Animal cells do not have chloroplasts. Explain why.
6. What is a pathogen?
7. What is the difference between epidemic and pandemic?
8. Antibodies are produced in response to antigens. What are anitgens and antibodies and where do they come from?
9. What is a vaccine and what is an antibiotic?
10. Identify the follow cells as either a plant or animal cell and then label the organelles.



1. What are the body defenses?
	1. Primary (first) –
	2. Secondary (second) –
	3. Tertiary (third) –