7 <sup>th</sup> Science Unit 2 Study Guide, Part 2	Name
	Date
	Period
40. A microscope views	things.
41. A telescope views	things.
42. Are the microscopes we use at school <i>li</i>	ght microscopes or electron microscopes?
43. How high can the best light microscope	es magnify up to?
44. What is a <i>monocular</i> microscope?	
45. What is a <i>binocular</i> microscope?	
46. Does the fact that a microscope is mono magnification?	ocular or binocular have anything to do with its total
47. What type of microscope has a lower m	agnification, typically having a maximum of 20-40x?
48. How high can an electron microscope n	nagnify things?
49. What is the magnification of our micros	scopes on low power?
50. What is the magnification of our micros	scopes on medium power?
51. What is the magnification of our micros	scopes on high power?
52. Suppose somebody had a microscope w total magnification be?	with a 5x ocular lens and a 25x objective lens. What would its
53. Suppose somebody had a microscope w its total magnification be?	with a 10x ocular lens and a 30x objective lens. What would

54. Sketch a microscope and label the 12 parts we identified in our notes (this question is 15 points, so don't skip it!).
55. Which knob is smaller on the microscope the <i>coarse</i> adjustment knob or the <i>fine</i> adjustment knob?
56. Which do you most when focusing—the <i>coarse</i> adjustment knob or the <i>fine</i> adjustment knob?
57. What is the purpose of the diaphragm on the microscope?
58. When carrying a microscope, you always want to hold it by what two parts?

59. In lab, several people saw a black "line" in their view. What was this?
60. Describe how things appear to move when using a microscope as compared to how you move the slide.
61. If you put an "e" on a slide facing normally, how will it look under the microscope?
62. What is meant by the term "field of view"?
63. What happens to the field of view on the microscope as you move up in magnification?
64. You are viewing an object on low power. What do you want to make sure and do before you go up to medium power?
65. You are wanting to view something on low power. What power do you start with?
66. You are wanting to view something on medium power. What power do you start with?
67. You are wanting to view something on high power. What power do you start with?
68. When we made our own slides of a piece of onion and a piece of you, what was that "blue stuff" and why did we use it?
69. Make a very brief sketch of what an onion cell (plant cell) looked like.
70. Make a very brief sketch of what one of your cells (animal cell) looked like.

71. In some cells, we saw some darker dots. What were those dots?
72. Name 3 positive roles of bacteria.
73. Name 3 negative roles of bacteria.
74. Name 3 positive roles of protists.
75. Name 3 negative roles of protists.
76. Name 3 positive roles of fungi.
77. Name 3 negative roles of fungi.
78. Define adaptation.
79. Define structural adaptation.
80. Describe and give an example of protective coloration.

81. Describe and give an example of protective resemblance.
82. Define behavioral adaptation.
83. Give two examples of behavioral adaptations.
84. Define mimicry.
85. Give an example of where we might see mimicry in nature.