Name Per: Date:				
Meiosis – Internet Lesson				
In this investigation, you will view sites that illustrate the process of meiosis. For each site answer the questions associated.				
Site 1 – Lew-Port's Meiosis Page				
Go to http://tinyurl.com/yfn8xlh				
How many chromosomes does the cell in this animation start with?				
2. The homologous pairs are represented by similar				
3. Copies of chromosomes are held together by the				
4. Each chromosome finds its				
5. Draw "crossing over" – using your pencil to shade in the areas that exchange parts.				
6. How many chromosomes are at each pole of the cell?				
7. During meiosis 2, chromosomes line up again along the cell's				
8. Only copy of each chromosome moves toward the poles. Which means only				
chromosomes of the original six.				
9. New membranes form around each				
10. Each cell divides, forming a total of cells.				
Site 2 – Sumanas Inc., Animation of Meiosis				
Go to http://tinyurl.com/2xocjx				
11. Read the introduction. Explain the difference between sexual and asexual reproduction.				
(Click to Animation) 12. DNA replication takes place when?				
13. Meiosis consists of two cell divisions: &				
14. Centrosomes (aka centrioles) migrate to				
15. The pairing of homologous chromosomes is called:				
16. Crossing over points are called				
17. What happens in metaphase I				
18. What happens during anaphase I				
19. What is interkinesis?				
20. In prophase II, each cells is [diploid / haploid] (circle)				

21. In metaphase II, chromosomes line up in [ single   double ] file.				
<ul><li>22. What happens during telophase II?</li><li>23. (Click to Conclusion). Each of the four daughter cells produced by meiosis is [ identical / unique ]</li></ul>				
(Click to Quiz)				
24. With respect to meiosis, when does DNA replication occur?				
25. When does crossing over occur?				
26. During which phase do chromosomes line up along the equator?				
27. During which phase does the nuclear membrane form around the chromosomes?				
Site 3 – Biology in Motion - Meiosis Go to <a href="https://www.biologyinmotion.com">www.biologyinmotion.com</a> → click on "Cell Division Exercise" → Click on "Practice Meiosis"				
28. There are two ways in which the chromosomes can end up after meiosis. Sketch the two ways and indicate by color the chromosomes (use the following color codes [or something like it]: Purple, Dark Purple, Green, Dark green)				
Possibility 1		Possibility 2		
Site 4: PBS: Mitosis vs. Meiosis  http://www.pho.org/wgbb/govg/boby/ N Click on "How Colle Divide" N Click on "Mitosia va Meiosia"				
http://www.pbs.org/wgbh/nova/baby/ → Click on "How Cells Divide" → Click on "Mitosis vs. Meiosis"				
29. After viewing the animation. Fill out the chart below, by placing a check in the box or boxes.				
Event	Mitosis Only	Meiosis Only	Both	
Two cell divisions				
Centrioles appear				
Chromosomes pair up				
Spindle fibers form				
One cell division Cytokinesis				
Four daughter cells				
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