Meiosis - Internet Lesson

In this investigation, you will view sites that illustrate the process of meiosis. For each site answer the questions associated. You can either type out the sites listed or go to www.biologycorner.com/links.html to click on them.

Name: _____

Site 1 - Sumanas Inc., Animation of Meiosis
http://www.sumanasinc.com/ ---> go to animation gallery --> go to general biology --> Meiosis

1. Read the introduction. Explain how sexual reproduction results in unique offspring. (Click the "STEP THROUGH" button)
2. DNA replication takes place when? _____
3. Meiosis consists of two cell divisions: _____ & _____
4. Centrosomes (aka centrioles) migrate to _____
5. The pairing of homologous chromosomes is called: _____
6. Crossing over points are called _____
7. What happens in metaphase I? _____
8. What happens during anaphase I? _____
9. What is interkinesis? _____
10. In prophase II, each cells is [diploid / haploid.] (circle)
11. In metaphase II, chromosomes line up in [single | double.] file.
12. What happens during telophase II? _____
13. (Click to Conclusion). Each of the four daughter cells produced by meiosis is [identical / unique.]

(Click to Quiz) Record your responses below.

1. With respect to meiosis, when does DNA replication occur? _____
2. When does crossing over occur? _____
3. During which phase do chromosomes line up along the equator? _____
4. During which phase does the nuclear membrane form around the chromosomes? _____

Site 2- Biology in Motion – Meiosis (*Requires Shockwave Plug In***)**
Go to www.biologyinmotion.com --> click "Cell Division Exercise" --> Click "Practice Meiosis"

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: Purple, Dark Purple, Green, Dark green)

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Site 3: PBS: Mitosis vs. Meiosis
http://www.pbs.org/wgbh/nova/baby/ --> Click "How Cells Divide" --> *Launch Interactive* "Mitosis vs. Meiosis"

After viewing the animation, fill out the chart below, by placing a check in the box or boxes to indicate which the event occurs in (some events might have checks for both mitosis and meiosis).

	Meiosis	Mitosis
Two cell divisions		
Centrioles appear		
Chromosomes pair up		
Spindle fibers form		
Two cell divisions		
Cytokinesis		
Four daughter cells		