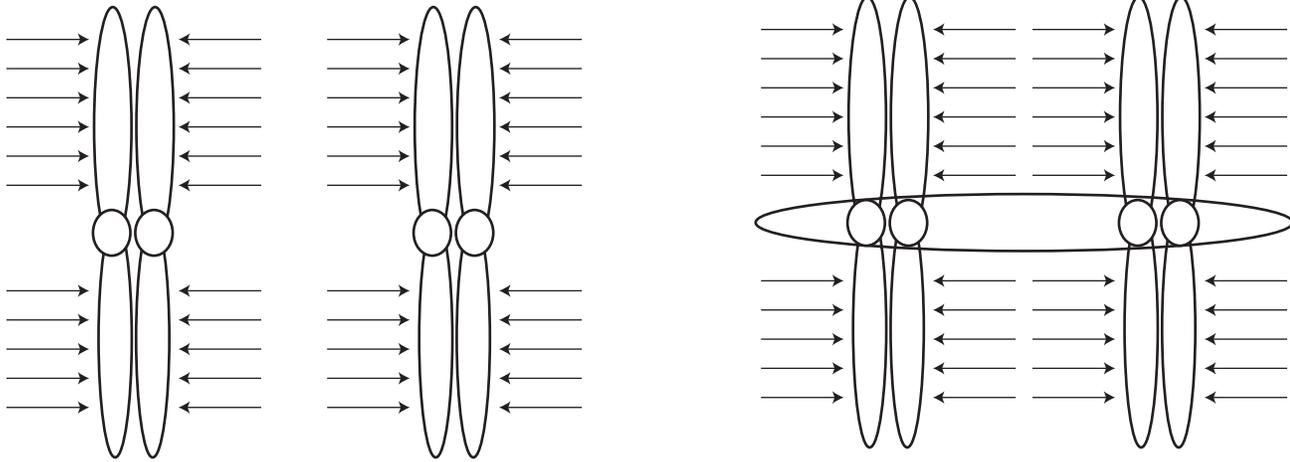


Meiosis Worksheet

Observations and Analysis



Questions

1. Do sister chromatids separate before or after homologous chromosomes separate? Explain.
2. Functionally, why would it be ineffective for sister chromatids to engage in crossing over?
3. At the end of the process, did you end up with beads of all one color on the chenille wires? Explain what this means in terms of the genes in a real cell.
4. Structurally and functionally, how do the daughter cells produced from meiosis differ from those produced by mitosis?
5. Explain the significance of the process of crossing over to living things in terms of biodiversity and the process of natural selection.