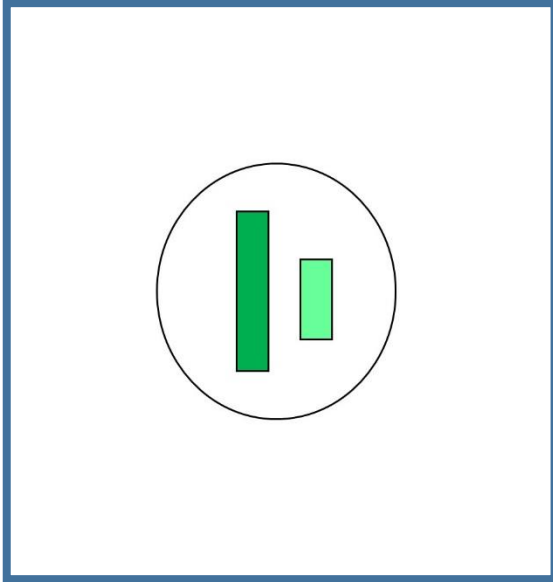


Meiosis Activity

Start with this card



The long bar is the X chromosome the short one is the Y chromosome

Arrange the rest of the cards using chromosome duplications and cell divisions so that at the end of the process you will have 2 cells with an X chromosome and 2 cells with a Y chromosome. There is only one way to do this

When you are finished draw your diagram here. Label the following on your diagram

S phase

Meiosis 1

Meiosis 2

Homologues

Sister chromatids

Objectives for Meiosis

Be able to determine whether a cell is in mitosis, meiosis1 or meiosis 2

Given a genotype, be able to diagram a cell in mitosis, meiosis1 or meiosis 2

Be able to determine in which division non-disjunction occurs given information about an individual with an abnormal sex chromosome constitution

Be able to compare male and female meiosis

Be able to order events of meiosis. Know at which stage events such as recombination, separation of sisters and separation of homologues occurs

Be able to distinguish sisters and homologues. When do they separate in Meiosis?