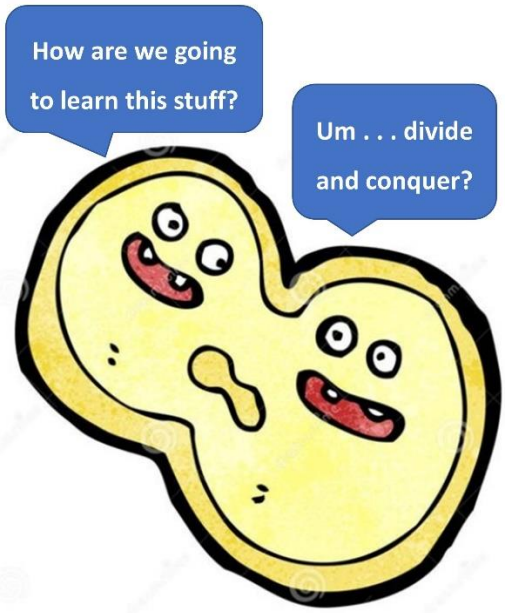
Name:

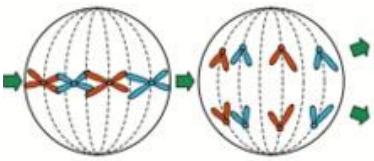
Student number/homeroom:

"Meiosis revisited"
LO: Model meiosis.
SLE: Meet NGSS.



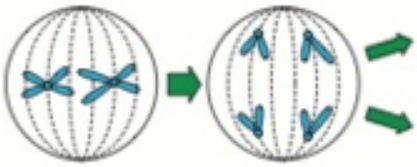
(Image from emaze.com, modified by Dr. Crowther)

Imagine an organism whose cells (aside from egg and sperm) normally have **4 chromosomes**, i.e., **2 pairs of 2 chromosomes**. Look at each of the images shown below (taken from https://sites.google.com/a/mgsd.k12.nc.us/smith-s-super-science-spot/daily-news/mitosismeiosis; original source unknown). For each one, say (a) what phases of mitosis and/or meiosis they could be and (b) why you think that.



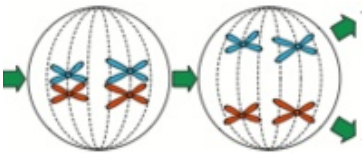
(1a)

(1b)



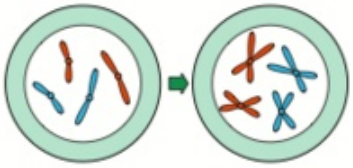
(2a)

(2b)



(3a)

(3b)



(3a)

(3b)

(5a) Do 2 sister chromatids normally contain the same alleles?

(5b) Do 2 homologous chromosomes normally contain the same alleles?