

Teacher Notes

Looking for a way to model mitosis but don't want to bring gummy worms to school? This is a great way to model using pipe cleaners.

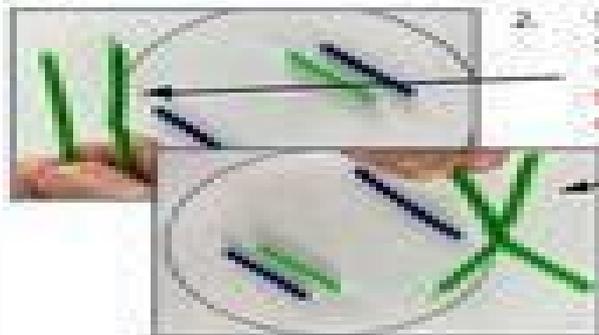
Materials and Set up:

Each group will need 4 circles to represent cells, and 2 pairs of homologous chromosomes. For group:

1. Print 4 circles for each group. **Begin the groups with one circle and give the rest later when they are ready to divide their cells.**
2. Cut 4 pipe cleaner chromosomes about 3 inches long, 2 in each color of choice.
3. Cut 4 pipe cleaner chromosomes about 1.5 inches long, 2 in each color choice.



1. Begin by showing the students that they have 2 chromosomes. You can explain that humans actually have 23 chromosomes but this is just a simplified model. Discuss what a chromosome is. One is big and one is small. The colors represent the homologous pair. **Do not show them the sister chromatid copies yet because it might be confusing to present all of the homologous chromosomes and their sister chromatids together.**



2. Next show them that during interphase the DNA replicates. Show them how to replicate their chromosomes by twisting the sister chromatids together. **At this point, I give my students their copy of each chromosome so they can make the sister chromatids.**



3. Explain that during prophase the homologous chromosomes pair up. This image shows the sister chromatids paired up with their homologous pair.



4. Next, show the students how the chromosomes perform crossing over by cutting a piece of each chromosome and twisting it around the opposite homolog. **I recommend only crossing over the big chromosomes one time. Don't try to cut the little ones.**



5. Continue the process of modeling each phase. **Check out my photos on the answer key.**

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