

Name:			
Name:			

Using Manipulatives for Mitosis

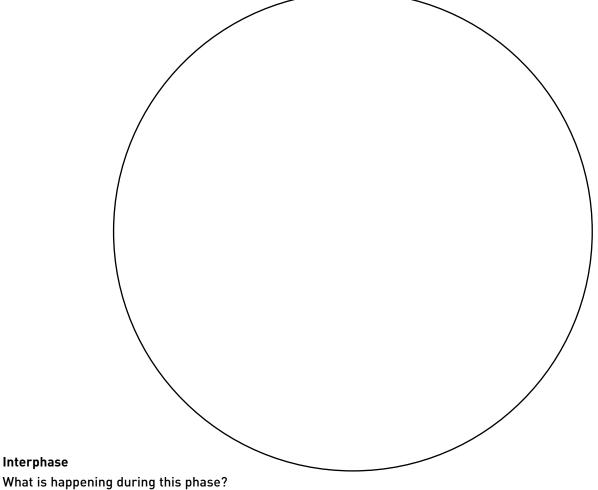
Materials

- Red and blue yarn
- Pipe cleaners
- Tape

Scissors

Directions

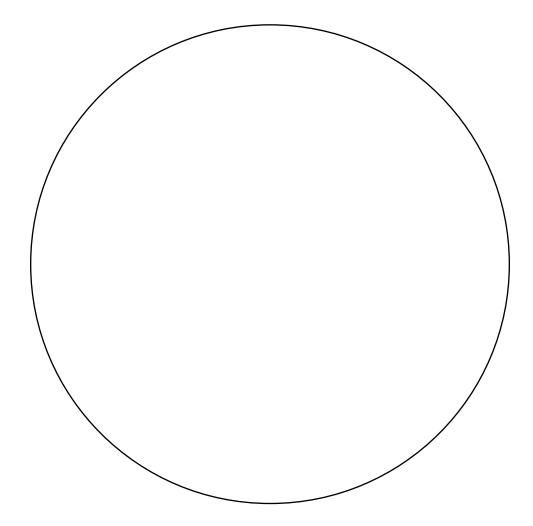
- 1. Get materials from the teacher and bring items back to your desk.
- 2. Use the blue yarn to make the chromatin in the cell below and tape it to the circle.



Interphase



3. Use pipe cleaners to make three pairs of chromosomes and tape them to the circle.

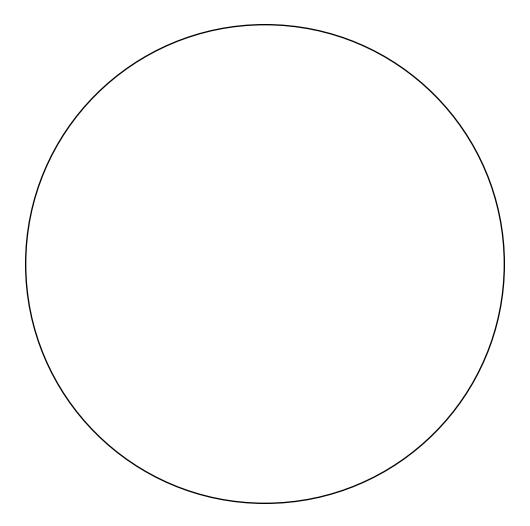


Early	Prop	hase
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what is nappening during this phase?	,		



4. Use pipe cleaners to make three pairs of chromosomes and red yarn as spindle fibres to attach to each pair of chromosomes from the top and bottom of the circle. Tape them to the circle.

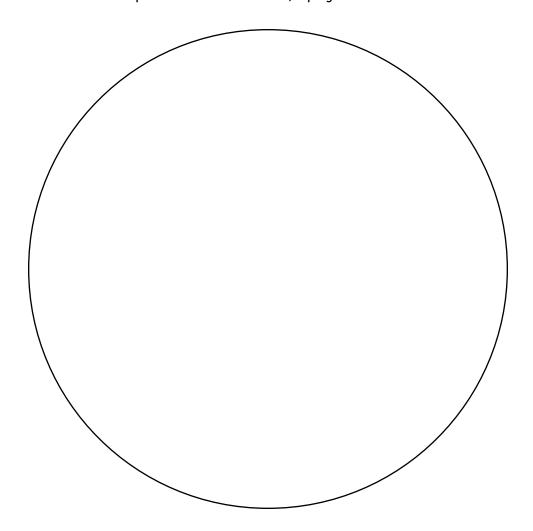


What is happening during this phase?		

Prophase



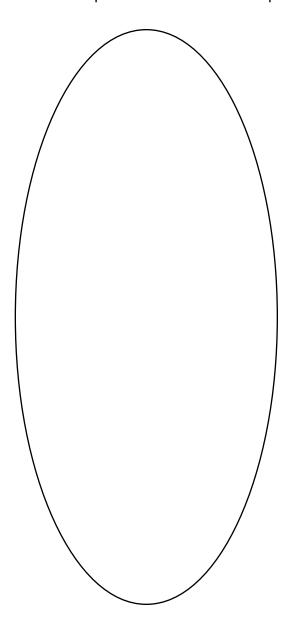
5. Use pipe cleaners to make three pairs of chromosomes and red yarn as spindle fibres to attach to each pair of chromosomes from the top and bottom of the circle, taping them in a line across the middle of the circle.



Metaphase		
What is happening during this phase?		



6. Use pipe cleaners to make six chromosomes splitting apart from the middle and red yarn as spindle fibres to attach to each chromosome from the top and bottom of the circle. Tape them to the circle.



Anaphase

What is happening during this phase?



	Student Activity
7. Use pipe cleaners to make three chromosomes taped to each cell.	

Telophase What is happening during this phase?	