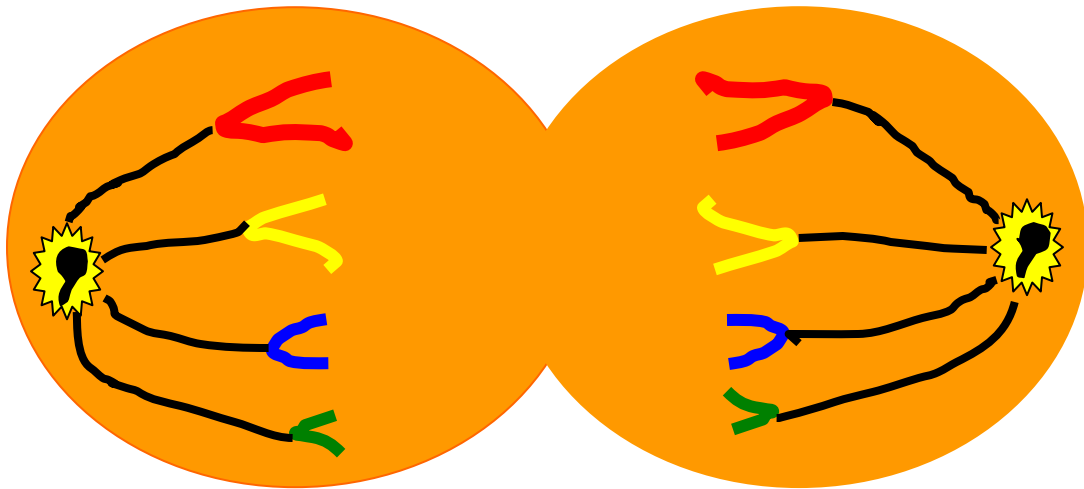


# MITOSIS

(my-toe-sis)

Another quality hands on teaching system in the genetics series

Designed by teachers! Tested by Teachers!

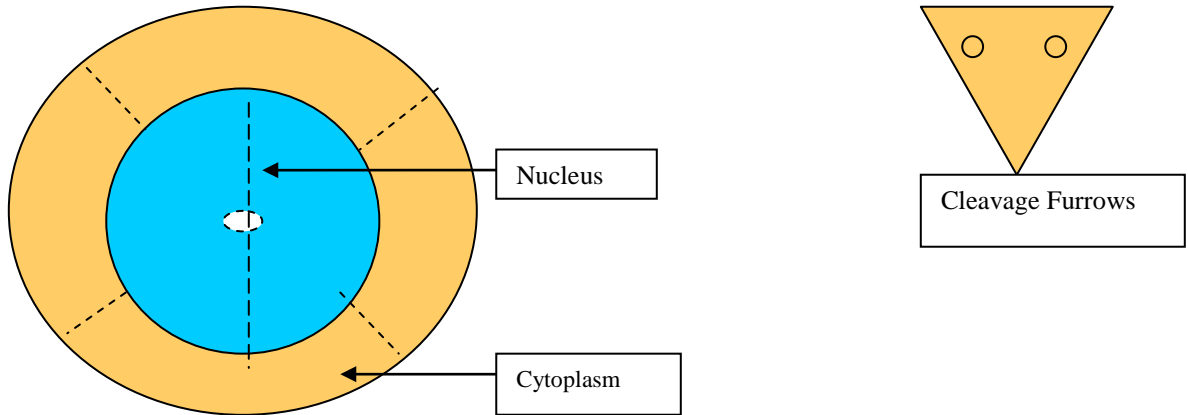


## Table of Content

Preparing kit for a teacher demonstration	2
Setting the stage for learning	3
Prerequisite Knowledge	4
The cell cycle	4
Interphase	5
Early Prophase	6
Middle and Late Prophase	7
Metaphase	9
Anaphase	10
Telophase	11
Cytokinesis	13
Student Kit	14
Part List	14

## Preparing Teacher Manipulatives for Your First Classroom Demonstration

A complete parts list is included at the end of this manual. You can order new parts to replace any lost or broken by contacting your kit supplier/dealer. Note that the cytoplasm, nucleus and cleavage furrows have magnets attached.



### Teacher Manipulatives

<b>PART Description</b>	<b>PART No.</b>	<b>Qty./Set</b>
Cell Cytoplasm ¼ Fragments	T-1	8
Nucleus (blue, halves)	T-2	4
Nucleus (orange, halves)	T-3	4
Anaphase Cleavage Furrow	T-7	2
Telophase Cleavage Furrow	T-8	2

The magnets are used to hold these parts to a metallic white board. If magnets become unglued, they can be re-glued using any epoxy or hot glue adhesive.

All other parts in the kit have a magnetic backing and adhere to the surface of the nucleus, cytoplasm and/or cleavage furrows.

## Mitosis Teacher Manual

Thank you for the purchase of the Mitosis Manipulative Kit. This kit was designed and developed for use in the science classroom by a science teacher. All of us are aware that abstract concepts can be difficult for our students. I'm confident that this product can make it easier for you to teach, and for your students to learn, Mitosis.

In this manual, I will give you some ideas on how to get started using your new kit. The included CD will also be useful for this purpose. I'm sure, that