

MEIOSIS (me-oh-sis)

Another quality hands on teaching system in the genetics series

Designed by teachers! Tested by Teachers!



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Meiosis Teacher Manual

Thank you for the purchase of the Meiosis Kit. This kit was designed and developed for use in the science classroom by science teachers. Teaching abstract concepts can be a real challenge. Take out the challenge and replace it with interest when you use these tactile and visual aids. This product will make it easier for you to teach, and for your students to learn, Meiosis.

The primary purpose of this manual is to supplement the included CD with additional background information for the teacher. The included CD will be the most useful for getting you started with using the kit. If you are already knowledgeable in the subject matter, going directly to the CD may be the best place to start. Return to the manual for additional background information and teaching tips. Reverse the order if you are new to the subject matter.

I. Teacher Introduction

A. Setting the Stage for Learning

Questioning is one way to get students engaged before they begin to learn. The question “why do we need to learn this” can be anticipated and needs to be answered. In the case of meiosis there are many interest invoking questions that the instructor can use to initiate discussion or student investigation. Ask students questions that might stimulate their natural curiosity, such as:

1. *Why do I have some physical characteristics that resemble my relatives and features that do not?*

.....Posing this question will engage student thinking about physical characteristics as hereditary traits.

Further questions might include:

- Where did the “Smith smile” come from or the “Jones nose”. Invite students to discuss examples of some physical characteristics in their families.

2. *My brother is a lot bigger than me. People say he resembles my father. We really don’t look anything alike. Why?*