

Introduction to the Teacher’s Module

THE *MAKING SENSE OF STATISTICAL STUDIES* TEACHER’S MODULE INCLUDES SUPPORTING resources to help you use *MSSS* effectively in your classroom. To make the Teacher’s Module easier to use, we have included all the pages from the Student Module. Prior to each section and each investigation in the student module, you will find Teacher Notes that provide the following:

A descriptive **Overview** that discusses the big ideas presented in the section/ investigation

Any **Prerequisites** for knowledge and skills students will need to complete the section/investigation successfully

A list of **Learning Objectives** that describes what students ought to know and be able to do as a result of completing the section/investigation

Detailed **Teaching Tips** from the authors that include in-depth discussion of key terms and concepts, examples, and specific questions from the student investigations

Source **References**, when applicable

Possible Extensions of the material discussed in the section/investigation in case you want to go further with your students

In addition, we have provided **Suggested Answers to Questions** for each of the 15 investigations.

We have designed *MSSS* to give you considerable flexibility in using the section overviews and investigations with your students. The overviews were written for a student audience. You will have to decide whether to ask students to read them ahead of time in preparation for a class discussion or to have students read some or all of the narrative aloud during class. Likewise, the investigations can be completed entirely during class time or split between class work and homework. For planning purposes, the table below shows our estimates of the time required to complete each investigation.

Section/Investigation	Estimated Time	Section/Investigation	Estimated Time
Introduction & Investigation 1	2 days	Investigation 9 plus data collection	2-3 days
Section I Overview & Investigation 2	3 days	Section III Overview & Investigation 10	2 days
Investigation 3	1-2 days	Investigation 11 plus data collection	2 days
Investigation 4	1-2 days	Investigation 12 plus data collection	2 days
Investigation 5	2 days	Section IV Overview & Investigation 13	2-3 days
Investigation 6 plus data collection	2 days	Investigation 14 plus data collection	2 days
Section II Overview & Investigation 7	2 days	Investigation 15 plus simulation	1-2 days
Investigation 8	1-2 days		

What about assessment? Student responses to the individual questions within an investigation can give you valuable feedback about their developing understanding. We have

identified questions in the Teacher Notes as possible assessment tasks. Investigations 6, 9, 11, 12, 14, and 15 require students to complete all four steps in the statistical problem-solving process: defining a research question, collecting data, analyzing the data, and interpreting results. These more comprehensive investigations could be used to formally evaluate students' mastery of the stated learning objectives. Alternatively, you might use one of the suggested Extensions as the basis for a performance assessment. Of course, you could develop and administer more traditional quizzes or tests covering the terminology, methods, and ideas of a given section or investigation.