You have been assigned to Group 1. Please sit in the front of the class on the window side.

Names of your fellow group members:

This activity is meant to introduce you to the many topics covered in our textbook. Each member of your group will learn about one unit from the book and then you will all report back so that everyone has a general sense of the topics. You will receive a participation grade for your work in this activity.

**Step One: Divide Up the Topics**

There are six units remaining in our textbook:

- Management Science - efficiency, scheduling, and the like.
- Statistics and Probability - obtaining, analyzing, and representing data.
- Fairness and Game Theory - a natural successor to the voting theory unit.
- The Digital Revolution - coding theory and identification numbers.
- Size and Growth - geometry and art.
- Money and Resources - economics of finance and resources.

Your group must assign at least one student to each of these units. If your group cannot come to a quick agreement, the group member with the birthday that falls earliest in the year makes the final call.

**Step Two: Investigate the Topics**

Each of you will join the others studying the same unit and will work together to fill out the relevant page of this packet. Feel free to make additional notes to help your groupmates understand what the unit is about. You will have 20-25 minutes for this portion of the activity.

**Step Three: Share Your Findings**

After you have completed your study of your chapters, your group will reconvene to swap information. Help your groupmates to fill out their packet and share any additional information you feel is relevant about the unit you considered. Also, fill out the pages on the units you did not cover by listening to your fellow group members describe their work. You will have 15-20 minutes for this portion of the activity.
Step Four: Vote

Now that you have some knowledge on all of the topics covered by the textbook, vote for which ones you want to cover next in the course. Below, write down your preference list of the units and mark your approval with an “X” or a star. You will have about 5 minutes for this final portion of the activity.
Unit I: Management Science

Name of group member assigned to this unit:

Names of other students who helped that group member study this unit:

1. What are the “big questions” that this unit seeks to answer?

2. What skills would you learn in this unit?

3. In what jobs/fields could the mathematics of this unit be applied?

4. Find one problem considered by this unit that strikes you as particularly interesting and describe it.
Unit II: Statistics: The Science of Data

Name of group member assigned to this unit:

Names of other students who helped that group member study this unit:

1. What are the “big questions” that this unit seeks to answer?

2. What skills would you learn in this unit?

3. In what jobs/fields could the mathematics of this unit be applied?

4. Find one problem considered by this unit that strikes you as particularly interesting and describe it.
Unit IV: Fairness and Game Theory

Name of group member assigned to this unit:

Names of other students who helped that group member study this unit:

1. What are the “big questions” that this unit seeks to answer?

2. What skills would you learn in this unit?

3. In what jobs/fields could the mathematics of this unit be applied?

4. Find one problem considered by this unit that strikes you as particularly interesting and describe it.
Unit V: The Digital Revolution

Name of group member assigned to this unit:

Names of other students who helped that group member study this unit:

1. What are the “big questions” that this unit seeks to answer?

2. What skills would you learn in this unit?

3. In what jobs/fields could the mathematics of this unit be applied?

4. Find one problem considered by this unit that strikes you as particularly interesting and describe it.
Unit VI: On Size and Growth

Name of group member assigned to this unit:

Names of other students who helped that group member study this unit:

1. What are the “big questions” that this unit seeks to answer?

2. What skills would you learn in this unit?

3. In what jobs/fields could the mathematics of this unit be applied?

4. Find one problem considered by this unit that strikes you as particularly interesting and describe it.
Unit VII: Your Money and Resources

Name of group member assigned to this unit:

Names of other students who helped that group member study this unit:

1. What are the “big questions” that this unit seeks to answer?

2. What skills would you learn in this unit?

3. In what jobs/fields could the mathematics of this unit be applied?

4. Find one problem considered by this unit that strikes you as particularly interesting and describe it.