

**Sampling design:** Math 25 and Math 25AX instructors who participated in the Elementary Algebra Teaching Community during Fall 2003 were asked to distribute surveys to their students during the last two weeks of the semester. Eight of the nine instructors returned surveys.

**Sample size:** 99

- This semester we used a variety of instructional methods in Elementary Algebra. Rate each method on a scale of 1 to 5 where **1 = not important to my learning, 3 = somewhat important to my learning, 5 = very important to my learning, N/A not applicable because not used.**

**n = 99 for this question**

Not important		Somewhat important		Very important		mean	
1	2	3	4	5	N/A		
6%	7%	24%	24%	34%	4%	<b>3.8</b>	Computer-aided instruction: using Phim2 to learn procedural skills
3%	1%	7%	20%	65%	3%	<b>4.5</b>	Mastery-based learning: chance to redo Phim2 posttests to reach 85%
5%	10%	31%	20%	32%	3%	<b>3.6</b>	Studying the textbook
1%	2%	11%	20%	65%	0%	<b>4.5</b>	Short lectures or presentations by my instructor
0%	3%	9%	21%	65%	0%	<b>4.5</b>	Class discussions of problems and concepts
2%	3%	16%	28%	46%	4%	<b>4.2</b>	Group activity worksheets
5%	0%	13%	27%	49%	5%	<b>4.2</b>	Group quizzes
10%	14%	23%	27%	21%	3%	<b>3.4</b>	Effective Learner Resource Assignments (study skills inventory, etc.)

What other activities contributed significantly to your learning? *Comments typed in another document.*

- Indicate whether your experience in algebra would be improved by MORE, SAME, or LESS of the following.

**n = 92 for this question**

More 39%	Same 43%	Less 17%	Computer-aided instruction: using Phim2 to learn procedural skills
More 46%	Same 45%	Less 10%	Mastery-based learning: chance to redo Phim2 posttests to reach 85%
More 40%	Same 43%	Less 16%	Studying the textbook
More 62%	Same 36%	Less 2%	Short lectures or presentations by my instructor

More 60%	Same 37%	Less 3%	Class discussions of problems and concepts
More 48%	Same 46%	Less 7%	Group activity worksheets
More 41%	Same 49%	Less 10%	Group quizzes
More 27%	Same 45%	Less 28%	Effective Learner Resource Assignments (study skills inventory, etc.)

3. Did you attend class regularly and fully participate in group activities? YES NO  
 If YES, rate the group activity worksheets on a scale of 1 to 5 where  
**1 = not at all, 3 = somewhat, 5 = very much**

**n = 94 for this question; responses from students who answered NO were excluded**

Not at all		some what		Very much	mean	
1 0%	2 3%	3 23%	4 36%	5 37%	<b>4.0</b>	The group activity worksheets stimulated my thinking.
1 1%	2 2%	3 30%	4 26%	5 41%	<b>4.0</b>	The group activity worksheets helped me understand how to apply algebra to a variety of settings.
1 1%	2 6%	3 23%	4 37%	5 32%	<b>3.9</b>	The group activity worksheets helped me understand the concepts, i.e. helped me see the “why” behind the “how” of algebra.
1 2%	2 6%	3 16%	4 34%	5 41%	<b>4.1</b>	The group activity worksheets helped prepare me for the unit exams.

4. Did you attempt the Unit Homework Problems? YES NO If YES, rate the Unit Homework Problems on a scale of 1 to 5 where **1 = not at all, 3 = somewhat, 5 = very much**

**n = 88 for this question; responses from students who answered NO were excluded**

Not at all		some what		Very much	mean	
1 1%	2 0%	3 22%	4 39%	5 39%	<b>4.1</b>	The Unit Homework problems stimulated my thinking.
1 1%	2 5%	3 26%	4 38%	5 31%	<b>3.9</b>	The Unit Homework problems helped me understand how to apply algebra to a variety of settings.
1 1%	2 5%	3 18%	4 35%	5 41%	<b>4.1</b>	The Unit Homework problems helped prepare me for the unit exams.

5. Rate your learning and development relative to the five outcomes below. Use a scale of 1 to 5 with **1 = no improvement, 3 = some improvement, 5 = a lot of improvement.**

**n = 96 for this question**

No improvement		Some improvement		A lot of improvement	mean	
1 2%	2 4%	3 34%	4 39%	5 21%	<b>3.7</b>	Outcome 1: Students will read, write, listen to, and speak mathematics with understanding.
1 2%	2 2%	3 36%	4 39%	5 21%	<b>3.7</b>	Outcome 2: Students will use mathematical reasoning to solve problems and a generalized problem solving process to work word problems.
1 3%	2 4%	3 32%	4 36%	5 24%	<b>3.7</b>	Outcome 3: Students will demonstrate the ability to use verbal, graphical, numerical, and symbolic representations of mathematical ideas.
1 2%	2 1%	3 30%	4 45%	5 22%	<b>3.8</b>	Outcome 4: Students will recognize and apply math concepts in a variety of relevant settings and demonstrate the math skills and knowledge necessary to succeed in subsequent courses.
1 2%	2 3%	3 26%	4 36%	5 32%	<b>3.9</b>	Outcome 5: Students will demonstrate the characteristics of an effective learner.

6. How has your experience this semester been different from your previous experiences in a math class?  
Compare and contrast your experiences this semester with your previous math classes.

*Comments typed in another document.*

7. Other comments (You may attach another sheet of paper if necessary)

*Comments typed in another document.*