

Course Student Learning Outcomes Assessment

MATH N06 Essential Mathematics

**Created on: 09/17/2013 03:08:00 PM PST
Last Modified: 02/17/2015 04:56:19 PM PST**

Table of Contents

General Information	1
Standing Requirements	2
Course Description.....	2
Course Student Learning Outcomes.....	2
2014-2015 Assessment Cycle	3
Measurements.....	3
Findings.....	3
Plans of Action.....	5
Status Reports.....	7
2013-2014 Assessment Cycle	9
Measurements.....	9
Findings.....	9
Plans of Action.....	11
Status Reports.....	12
2012-2013 Assessment Cycle	14
Measurements.....	14
Findings.....	14
Plans of Action.....	14
Status Reports.....	14
Appendix	15

General Information (Course Student Learning Outcomes Assessment)

Standing Requirements

Course Description

Reviews whole numbers fractions decimals percents geometric formulas and signed numbers. Not applicable to associate degree.

Course Student Learning Outcomes

MATH N06 Essential Mathematics Outcome Set

Outcome	
Outcome	Mapping
Outcome 1 Read, define and apply arithmetic vocabulary and symbols.	Institutional Student Learning Outcomes: Communicate 1, Communicate 3, Learn 2, Think 1, Think 2
Outcome 2 Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.	Institutional Student Learning Outcomes: Think 1
Outcome 3 Apply arithmetic principles to solve simple real world problems and understand the use of percent.	Institutional Student Learning Outcomes: Communicate 1, Learn 2, Think 1, Think 2
Outcome 4 Recognize basic geometric figures and evaluate simple properties of these figures.	Institutional Student Learning Outcomes: Communicate 1, Learn 2, Think 1, Think 2

2014-2015 Assessment Cycle

Measurements

Outcomes and Measures

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Measure:** Math N06 - SLO 1
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 7) free- response problems assessed that covered SLO 1.

The rubric was a scale from 0 - 1:
Successful
1: Correct –
Unsuccessful
0: Attempted – incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric scale rubric.
Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2014-2015, Kathy Moore, is responsible for the assessment.

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ **Measure:** Math N06 - SLO 2
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 20) free- response problems assessed that covered SLO 2.

The rubric was a scale from 0 - 1:
Successful
1: Correct –
Unsuccessful
0: Attempted – incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric.
Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2014-2015, Kathy Moore, is responsible for the assessment.

Findings

Finding per Measure

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Measure:** Math N06 - SLO 1
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 7) free- response problems assessed that covered SLO 1.

The rubric was a scale from 0 - 1:

Successful

1: Correct –

Unsuccessful

0: Attempted – incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric scale rubric. Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2014-2015, Kathy Moore, is responsible for the assessment.

Findings for Math N06 - SLO 1

Summary of Findings: Finals from 3 of the 4 sections offered were assessed. Sixteen students from each of the 3 classes were randomly chosen to be included in the assessment (n=48).

Success Rates:


SLO 1: 56.8% down from 2 years ago (69.4%).

Results: Criteria for Success Achievement Status: Not Met

Analysis of Findings: Our results are lower than hoped with regard to vocabulary in SLO 1, and we had a large decrease (12%) from 2 years ago.

Recommendations: These results will be sent to current and past Math N06 instructors. Encourage instructors to focus on order of operations and vocabulary.

Substantiating Evidence:

 Math N06 SLO Assessment Data F14 (Adobe Acrobat Document) (See appendix)

This Findings is associated with the following Actions:

Math N06 Plan of Action SLO 1 2014-15

(Plans of Action; 2014-2015 Assessment Cycle)

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ **Measure:** Math N06 - SLO 2
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 20) free- response problems assessed that covered SLO 2.

The rubric was a scale from 0 - 1:

Successful

1: Correct –

Unsuccessful

0: Attempted – incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is

earning a 1 on the rubric.
Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2014-2015, Kathy Moore, is responsible for the assessment.

Findings for Math N06 - SLO 2

Summary of Findings: Finals from 3 of the 4 sections offered were assessed. Sixteen students from each of the 3 classes were randomly chosen to be included in the assessment (n=48).


Success Rates:
SLO 2: 55.7% up from 2 years ago (39.4%).

Results: Criteria for Success Achievement Status: Not Met

Analysis of Findings: Our results are lower than hoped with regard to order of operations in SLO 2, although we a large increase (17%) from 2 years ago which is probably from the focus on order of operations that we have recommended to our instructors.

Recommendations: These results will be sent to current and past Math N06 instructors. Encourage instructors to focus on order of operations and vocabulary. Discuss importance of order of operations to be sure teachers are continually reviewing it through all the chapters.

Substantiating Evidence:

 Math N06 SLO Assessment Data F14 (Adobe Acrobat Document) (See appendix)

This Findings is associated with the following Actions:

Math N06 SLO 2 2014-15
(Plans of Action; 2014-2015 Assessment Cycle)

Overall Recommendations

No text specified

Plans of Action

Actions

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ Action: Math N06 Plan of Action SLO 1 2014-15

This Action is associated with the following Findings

Findings for Math N06 - SLO 1
(Measurements and Findings; 2014-2015 Assessment Cycle)

Summary of Findings: Finals from 3 of the 4 sections offered were assessed. Sixteen students from each of the 3 classes were randomly chosen to be included in the assessment (n=48).

Success Rates:
SLO 1: 56.8% down from 2 years ago (69.4%).

Details of Plan of Action: These results will be sent to all full-time and part-time math faculty,

and will be discussed at our department meeting. The following will be addressed:

- 1) We need instructors to continually review order of operations through ALL the chapters.
- 2) Special worksheets will be given to the N06 instructors to review order of operations and vocabulary.

Plan of Action Timeline: Spring 2015: The Plan of Action will begin during the next scheduled faculty meeting after the assessment. Faculty meetings are once a month during Fall and Spring semesters.

Fall 2015 – Fall 2017: All faculty teaching Math N06 will be given reminders of the SLO results and the suggestions laid out in our Plan of Action at the beginning of each semester in their welcome packet.

Fall 2016: New Data will be collected to reassess this SLO.

Who is responsible for carrying out the Plan of Action?: The Math N06 coordinator(s) of record for 2015-2018 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: We will reassess this SLO in three years to determine if this Plan of Action was successful.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: Medium

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ Action: Math N06 SLO 2 2014-15

This Action is associated with the following Findings

Findings for Math N06 - SLO 2

(Measurements and Findings; 2014-2015 Assessment Cycle)

Summary of Findings: Finals from 3 of the 4 sections offered were assessed. Sixteen students from each of the 3 classes were randomly chosen to be included in the assessment (n=48).

Success Rates:

SLO 2: 55.7% up from 2 years ago (39.4%).

Details of Plan of Action: These results will be sent to all full-time and part-time math faculty, and will be discussed at our department meeting. The following will be addressed:

- 1) We need instructors to continually review order of operations through ALL the chapters.
- 2) Special worksheets will be given to the N06 instructors to review order of operations and vocabulary.

Plan of Action Timeline: Spring 2015: The Plan of Action will begin during the next scheduled faculty meeting after the assessment. Faculty meetings are once a month during Fall and Spring semesters.

Fall 2015 – Fall 2017: All faculty teaching Math N06 will be given reminders of the SLO results and the suggestions laid out in our Plan of Action at the beginning of each semester in their welcome packet.

Fall 2016: New Data will be collected to reassess this SLO.

Who is responsible for carrying out the Plan of Action?: The Math N06 coordinator(s) of record for 2015-2018 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: We will reassess this SLO in three years to determine if this Plan of Action was successful.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: Medium

 **Status Reports**

Action Statuses

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Action:** Math N06 Plan of Action SLO 1 2014-15

Details of Plan of Action: These results will be sent to all full-time and part-time math faculty, and will be discussed at our department meeting. The following will be addressed:

- 1) We need instructors to continually review order of operations through ALL the chapters.
- 2) Special worksheets will be given to the N06 instructors to review order of operations and vocabulary.

Plan of Action Timeline: Spring 2015: The Plan of Action will begin during the next scheduled faculty meeting after the assessment. Faculty meetings are once a month during Fall and Spring semesters.

Fall 2015 – Fall 2017: All faculty teaching Math N06 will be given reminders of the SLO results and the suggestions laid out in our Plan of Action at the beginning of each semester in their welcome packet.

Fall 2016: New Data will be collected to reassess this SLO.

Who is responsible for carrying out the Plan of Action?: The Math N06 coordinator(s) of record for 2015-2018 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: We will reassess this SLO in three years to determine if this Plan of Action was successful.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: Medium

Status for Math N06 Plan of Action SLO 1 2014-15

No Status Added

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ **Action:** Math N06 SLO 2 2014-15

Details of Plan of Action: These results will be sent to all full-time and part-time math faculty, and will be discussed at our department meeting. The following will be addressed:

- 1) We need instructors to continually review order of operations through ALL the chapters.

2) Special worksheets will be given to the N06 instructors to review order of operations and vocabulary.

Plan of Action Timeline: Spring 2015: The Plan of Action will begin during the next scheduled faculty meeting after the assessment. Faculty meetings are once a month during Fall and Spring semesters.

Fall 2015 – Fall 2017: All faculty teaching Math N06 will be given reminders of the SLO results and the suggestions laid out in our Plan of Action at the beginning of each semester in their welcome packet.

Fall 2016: New Data will be collected to reassess this SLO.

Who is responsible for carrying out the Plan of Action?: The Math N06 coordinator(s) of record for 2015-2018 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: We will reassess this SLO in three years to determine if this Plan of Action was successful.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: Medium

Status for Math N06 SLO 2 2014-15

No Status Added

Status Summary

No text specified

Summary of Next Steps

No text specified

2013-2014 Assessment Cycle

Measurements

Outcomes and Measures

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Measure:** Math N06 - SLO 1
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 7) free- response problems assessed that covered SLO 1.

The rubric was a scale from 0 - 1:
Successful
1: Correct –
Unsuccessful
0: Attempted – incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric scale rubric.
Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2013, collated, analyzed, reported, and discussed in Spring 2014, with recommendations implemented in Fall 2014.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2013-2014, Kathy Moore, is responsible for the assessment.

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ **Measure:** Math N06 - SLO 2
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 20) free- response problems assessed that covered SLO 2.

The rubric was a scale from 0 - 1:
Successful
1: Correct –
Unsuccessful
0: Attempted – incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric.
Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2013, collated, analyzed, reported, and discussed in Spring 2014, with recommendations implemented in Fall 2014.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2013-2014, Kathy Moore, is responsible for the assessment.

Findings

Finding per Measure

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Measure:** Math N06 - SLO 1
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 7) free- response problems assessed that covered SLO 1.

The rubric was a scale from 0 - 1:

Successful

1: Correct -

Unsuccessful

0: Attempted - incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric scale rubric. Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2013, collated, analyzed, reported, and discussed in Spring 2014, with recommendations implemented in Fall 2014.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2013-2014, Kathy Moore, is responsible for the assessment.

Findings for Math N06 - SLO 1

Summary of Findings: Finals from 4 of the 4 sections offered were assessed.

Ten students from each of the 4 classes were randomly chosen to be included in the assessment (n=40).

Overall Success Rate:
SLO 1: 69.4%.

Results: Criteria for Success Achievement Status: Not Met

Analysis of Findings: Our results are slightly lower than expected with regard to vocabulary in SLO 1.

Recommendations: Instructors will be encouraged to focus on vocabulary.

This Findings is associated with the following Actions:

Math N06 SLO 1

(Plans of Action; 2013-2014 Assessment Cycle)

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ **Measure:** Math N06 - SLO 2
Course level; Direct - Exam

Description of Measurement Tool: Students were given a department final. There were 4 (out of 20) free- response problems assessed that covered SLO 2.

The rubric was a scale from 0 - 1:

Successful

1: Correct -

Unsuccessful

0: Attempted - incorrect or Blank

Criteria for Success: Individual & Collective Student Criterion: Individually, success is earning a 1 on the rubric. Collectively, success is defined as 70% of the class being individually successful.

Cycle of Assessment: For this report, the data was gathered in Fall 2013, collated, analyzed, reported, and discussed in Spring 2014, with recommendations implemented in Fall 2014.

Who is Responsible for Assessment Activity?: The Math N06 coordinator of record for 2013-2014, Kathy Moore, is responsible for the assessment.

Findings for Math N06 - SLO 2

Summary of Findings: Finals from 4 of the 4 sections offered were assessed.

Ten students from each of the 4 classes were randomly chosen to be included in the assessment (n=40).

Success Rate:
SLO 2: 39.4%

Results: Criteria for Success Achievement Status: Not Met

Analysis of Findings: Our results are much lower than expected with regard to Order of Operations in SLO 2.

Recommendations: Instructors will be encouraged to focus on order of operations.

As a department, we will discuss the importance of order of operations to be sure teachers are continually reviewing it through all the chapters.

Overall Recommendations

No text specified

 **Plans of Action**

Actions

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Action: Math N06 SLO 1**

This Action is associated with the following Findings

Findings for Math N06 - SLO 1
(Measurements and Findings; 2013-2014 Assessment Cycle)

Summary of Findings: Finals from 4 of the 4 sections offered were assessed.

Ten students from each of the 4 classes were randomly chosen to be included in the assessment (n=40).

Overall Success Rate:
SLO 1: 69.4%.

Details of Plan of Action: These results will be sent to current and past Math N06 instructors.

Instructors will be encourage to focus on vocabulary.

Plan of Action Timeline: We will reassess this SLO in Fall of 2016.

Who is responsible for carrying out the Plan of Action?: The Math 060 coordinator of record for 2016-2017 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: Since our goal was almost met, success will still be defined as 70% of the class being individually successful.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: Medium

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ **Action:** Math N06 SLO 2

This Action is associated with the following Findings

No supporting Findings have been linked to this Action.

Details of Plan of Action: These results will be sent to current and past Math N06 instructors.

Instructors will be encouraged to focus on order of operations.

Discuss importance of order of operations to be sure teachers are continually reviewing it through all the chapters.

Plan of Action Timeline: We will reassess this SLO in Fall of 2016.

Who is responsible for carrying out the Plan of Action?: The Math 060 coordinator of record for 2016-2017 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: This Plan of Action is considered successful if the overall success rate improves by 5 percentage points or more.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: High

 **Status Reports**

Action Statuses

MATH N06 Essential Mathematics Outcome Set

Outcome

Outcome 1

Read, define and apply arithmetic vocabulary and symbols.

▼ **Action:** Math N06 SLO 1

Details of Plan of Action: These results will be sent to current and past Math N06 instructors.

Instructors will be encourage to focus on vocabulary.

Plan of Action Timeline: We will reassess this SLO in Fall of 2016.

Who is responsible for carrying out the Plan of Action?: The Math 060 coordinator of record for 2016-2017 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: Since our goal was almost met, success will still be defined as 70% of the class being individually successful.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: Medium

Status for Math N06 SLO 1

No Status Added

Outcome 2

Evaluate arithmetic expressions and perform order of operations on simple arithmetic expressions.

▼ Action: Math N06 SLO 2

Details of Plan of Action: These results will be sent to current and past Math N06 instructors.

Instructors will be encouraged to focus on order of operations.

Discuss importance of order of operations to be sure teachers are continually reviewing it through all the chapters.

Plan of Action Timeline: We will reassess this SLO in Fall of 2016.

Who is responsible for carrying out the Plan of Action?: The Math 060 coordinator of record for 2016-2017 will be responsible for the assessment.

How will you determine if the Plan of Action has been effective?: This Plan of Action is considered successful if the overall success rate improves by 5 percentage points or more.

Additional Resources Required (if any):

Budget request amount: \$0.00

Priority: High

Status for Math N06 SLO 2

No Status Added

Status Summary

No text specified

Summary of Next Steps

No text specified

2012-2013 Assessment Cycle

 **Measurements**

 **Findings**

 **Plans of Action**

 **Status Reports**

Appendix

-
- A. **Math N06 SLO Assessment Data F14** (Adobe Acrobat Document)
 - B. **Math N06 SLO Assessment Data F14** (Adobe Acrobat Document)
-