Secondary Teacher Education Program in Mathematics
University of Massachusetts Amherst

Mathematics Grade level 5-8 SUBJECT MATTER KNOWLEDGE WORKSHEET

Name: ______________________________________________________________________________

Undergraduate Institution and Major: ______________________________________________________

Graduate Institution and Program of Study: _________________________________________________

Please indicate how your course work or other experience satisfies each of the following requirements:

(a) Algebra:____________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
(b) Euclidean Geometry: _____________________________________________________________
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(c) Trigonometry: ___________________________________________________________
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_________________________________________________________________________
(d) Discrete/Finite mathematics:   _________________________________________________
_________________________________________________________________________
_________________________________________________________________________
(e) Introductory calculus through integration ___________________________________________
_________________________________________________________________________
_________________________________________________________________________
(f) History of mathematics__________________________________________________________
________________________________________________________________________
________________________________________________________________________
(g) Use of technology ______________________________________________________________
________________________________________________________________________
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Subject matter requirements have been checked and ______________________________________ has
completed the requirements for Initial Licensure in Mathematics at the 5 - 8 grade level.

______________________________________________
Licensure Advisor     Date

6/11/03
SUBJECT MATTER KNOWLEDGE

Guidelines for Students Seeking Licensure in Middle School Mathematics
Massachusetts Subject Matter Knowledge Requirements for Mathematics
(Grade Level: 5-8)

(a) Algebra
(b) Euclidean Geometry
(c) Trigonometry
(d) Discrete/Finite mathematics
(e) Introductory calculus through integration
(f) History of mathematics
(g) Use of technology

Subject matter knowledge in Mathematics at the 5-8 level for Initial Licensure can be demonstrated by successful completion of appropriate course work and by passing the MTEL in mathematics at the 5-8 level. Normally the course work requirements can be met with a major in mathematics. Often candidates must take additional courses to fulfill requirements (f), and (g).
Secondary Teacher Education Program in Mathematics
University of Massachusetts Amherst

Mathematics Grade level 8-12 SUBJECT MATTER KNOWLEDGE WORKSHEET

Name: ______________________________________________________________________________

Undergraduate Institution and Major: ______________________________________________________________________________________

Graduate Institution and Program of Study: __________________________________________________________________________________

Please indicate how your course work or other experience satisfies each of the following requirements:

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<thead>
<tr>
<th>Course Title and Number</th>
<th>Semester</th>
<th>Year</th>
<th>Grade</th>
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<tbody>
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<td>(a) Algebra:</td>
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<td>(b) Euclidean Geometry:</td>
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<td>(c) Trigonometry:</td>
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<td>(d) Discrete/Finite mathematics:</td>
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<td>(e) Introductory calculus through integration</td>
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<td>(f) History of mathematics</td>
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<td>(g) Use of technology</td>
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<td>(h) Abstract algebra</td>
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6/11/03
Subject matter requirements have been checked and _______________________________ has completed the requirements for Initial Licensure in Mathematics at the 8-12 grade level.

______________________________________  __________________________
Licensure Advisor                        Date
SUBJECT MATTER KNOWLEDGE

Guidelines for Students Seeking Licensure in High School Mathematics

Massachusetts Subject Matter Knowledge Requirements for Mathematics
(Grade Level: 8-12)

a. Algebra
b. Euclidean Geometry
c. Trigonometry
d. Discrete/Finite mathematics
e. Introductory calculus through integration
f. History of mathematics
g. Use of technology
h. Abstract algebra
i. Number theory
j. Calculus through differential equations
k. Probability and statistics
l. Non-Euclidean and transformational geometries
m. Applied mathematics or mathematics modeling

Subject matter knowledge in Mathematics at the 8-12 level for Initial Licensure can be demonstrated by successful completion of appropriate course work and by passing the MTEL in mathematics at the 8-12 level. Normally the course work requirements can be met with a major in mathematics. Often candidates must take additional courses to fulfill requirements (f), and (g).