

Secondary Teacher Education Program in Science

University of Massachusetts Amherst

GENERAL SCIENCE 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:

	<i>Course Title and Number</i>	<i>Semester</i>	<i>Year</i>	<i>Grade</i>
(a) Biology:	_____			

Physical Science: _____

Chemistry _____

Earth/Space Science _____

Mathematics _____

(b) History and _____

Philosophy of _____

Science _____

(c) Methods of research _____

in the sciences, _____

computers and lab work: _____

The following courses constitutes the equivalent of a minor in _____:

- 1) _____
- 2) _____
- 3) _____
- 4) _____

Subject Matter requirements have been checked and _____ has completed the requirements for Initial Licensure in general science at the 5-8 grade level.

Licensure Advisor

Date

**Guidelines for Students Seeking Initial Licensure in General Science
Massachusetts Subject Matter Knowledge for General Science
(Grade Level: 5-8)**

- (a) Intermediate knowledge of biology, chemistry, physics, earth/space science, and related mathematics
- (b) History and philosophy of science
- (c) Methods of research in the sciences, including laboratory techniques and the use of computers

Subject matter knowledge in General Science for Initial Licensure can be demonstrated by successful completion of appropriate course work and by passing the MTEL in General Science. Normally the course work requirement can be met with a distribution of courses in all four sciences and an equivalent of at least a minor in one. Often candidates must take additional course work to fulfill requirement (b).