

Petrographic Problem-Solving Assignments

Grading Sheets

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ES 450: Petrology Presentation Assessment Form

Presenter's name: _____

Sample Number: _____

	<u>1 = Inadequate</u>	<u>3 = Adequate</u>	<u>5 = Superior</u>	
Introduction	1	3	5	= _____

Delivery	1	3	5	= _____
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(easy to follow, understandable, relaxed, eye contact, not reading a paper)

Organization	1	3	5	= _____
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(good flow, logical order, well-organized)

Slides and Figures	1	3	5	_____
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ES 450: Introduction to Petrology

Petrographic Problem-Solving Assignment #1

Student _____ Sample _____

_____/3 points Does student addressing specific problem? Rate performance
(Determine the geologic conditions and/or the specific environment under which the sample formed.)

_____/1 point Propose a working hypothesis to address this geologic problem

_____/2 points Test the hypothesis using observations and data available from the thin section
(Support interpretation using textural features and/or mineralogy that are directly observed in the samples.)

_____/2 points Provides relevant data and observations
(Mineralogy; percentages of minerals based on visual estimates; textural relationships; lithology.)

_____/2 points Overall Impressions of Paper
Paper is well written and organized.
Provides summary tables and/or uses sketches or images to support descriptions.

_____/4 points Presentation (*Refer to separate Presentation Assessment Sheet*)
Overall quality of presentation: organization, use of figures, readable slides, and presentation style.

_____/1 point Class Participation
Were you engaged in the learning process as demonstrated by asking questions of your student colleagues?

ES 450: Introduction to Petrology

Petrographic Problem-Solving Assignment #2

Student _____ **Sample** _____

_____/3 points Does student identify geologic problem? Rate quality of problem.

_____/1 point Propose a working hypothesis to address this geologic problem

_____/2 points Test the hypothesis using observations and data available from the thin section
(support interpretation using textural features and/or mineralogy that are directly observed in the samples)

_____/2 points Provides relevant data and observations
(mineralogy; percentages of minerals based on visual estimates; textural relationships; lithology)

_____/2 points Overall Impressions
Paper is well written and organized
Provides summary tables and/or uses sketches or images to support descriptions

_____/4 points Presentation (*Refer to separate Presentation Assessment Sheet*)
Overall quality of presentation: organization, use of figures, readable slides, and presentation style.

_____/1 point Class Participation
Were you engaged in the learning process as demonstrated by asking questions of your student colleagues?

ES 450: Introduction to Petrology - Petrographic Problem-Solving Assignment #3

Student _____ Sample # _____

_____/3 points How well does student address specific problem?

(PROBLEM is two-fold: (1) interpret origin of the textural features in the sample, and (2) determine the conditions of metamorphism (as specifically as possible) using both the TEXTURES and MINERALOGY of the rock.)

_____/1 point Propose working hypothesis to address geologic problem

_____/2 points Test the hypothesis using observations and data available from the thin section
(support interpretation using textural features and/or mineralogy that are directly observed in the samples)

_____/2 points Provides relevant data and observations
(mineralogy; percentages of minerals based on visual estimates; textural relationships; lithology)

_____/2 points Overall Impressions
Paper is well written and organized
Provides summary tables and/or uses sketches or images to support descriptions

_____/4 points Presentation (*Refer to separate Presentation Assessment Sheet*)
Overall quality of presentation: organization, use of figures, readable slides, and presentation style.

_____/1 point Class Participation
Were you engaged in the learning process as demonstrated by asking questions of your student colleagues?

ES 450: Introduction to Petrology

Take-Home Final - Petrographic Problem-Solving Assignment

Student _____/10 points

Sample _____

Rate quality of the geologic problem that the student has identified _____/2 points

Propose working hypothesis to address the geologic problem _____/2 points

Test the hypothesis using observations and data available from the thin section _____/2 points
(support interpretation using textural features and/or mineralogy that are directly observed in the samples)

Provides relevant data and observations _____/2 points
(mineralogy; percentages of minerals based on visual estimates; textural relationships; lithology)

Overall Impressions _____/2 points

Paper is well written and organized

Provides summary tables and/or uses sketches or images to support descriptions