

Appendix A
Effectiveness and Usefulness Survey

Please respond to the following two areas of interest for helping us improve the online science instruction. How was your learning and practice enhanced in GEOL 130 by exposure to the following online features?

| Your Level of Learning | Your Level of Application |
|-----------------------------------|--------------------------------------------|
| 1 – Feature was a distractor | 1 – I would never use this feature |
| 2 – Feature did not help | 2 – I would use this rarely in my lessons |
| 3 – Feature was sometimes helpful | 3 – I would use this in some of my lessons |
| 4 – Feature was very helpful | 4 – I would use this in most of my lessons |

| Features | Level of Learning | | | | Level of Application | | | |
|--------------------------------------------------------------------------------------|-------------------|---|---|---|----------------------|---|---|---|
| 1. Overall graphic organizer at start of the lesson (flow chart). | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 2. Conceptual Questions at the beginning of the class | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 3. Class objectives at the beginning of the class | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 4. Visual imagery reminders from linked websites | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 5. Graphical organizers to enhance content learning (concept maps) | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 6. Links to websites embedded in the text | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 7. Parts of flow chart presented throughout text. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 8. Review section: restatement of conceptual questions, objectives, and concept map. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 9. Daily brief assessment | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 10. The use of external websites for content | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |