1014-H1-274   **Alex M McAllister*** (`alexmcal@centre.edu`), Mathematics Department, Centre College, Danville, KY 40422. *Student Reflections on Mathematics.*

We discuss two types of mathematics writing assignments: reading questions and short reflection papers. The reading questions provide students with an opportunity to respond to daily reading assignments given as homework *in preparation* for class. These questions ask for definitions, examples, nonexamples, theorems, and other elements of the reading. We provide samples of reading questions for calculus, linear algebra, and real analysis courses. The short reflection papers we present include:

- *An Automathography*, an autobiographical description and discussion of student's personal mathematical experiences;

- *What can I do with mathematics?*, a response to AMS-MAA on-line career profiles;

- *What is Calculus 2?*, a description of Calculus 2 (or any mathematics course) generated by students at the end of the term;

- *Napier's Cannon*, a discussion of the "good" and "bad" aspects of our technological creations;

- *Math and Reality?*, an exploration of the applicability of mathematics to the "real-world."

In addition to detailing the requirements of these writing projects, we share highlights from several papers spanning work from first-term freshman to senior math majors. (Received September 04, 2005)

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