Independent Study in Mathematics

Adopted 2012

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(c) Knowledge and skills: mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to: ISM.9-12.1

(1) apply mathematics to problems arising in everyday life, society, and the workplace; ISM.9-12.1.1

(2) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution; ISM.9-12.1.2

(3) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems; ISM.9-12.1.3

(4) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate; ISM.9-12.1.4

(5) create and use representations to organize, record, and communicate mathematical ideas; ISM.9-12.1.5

(6) analyze mathematical relationships to connect and communicate mathematical ideas; and ISM.9-12.1.6

(7) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication. ISM.9-12.1.7