



NCTM Process Standards Rubric



Geometry – PK-2

Skills For Critical Thinking		Chapter 1	Chapter 2	Chapter 3	Chapter 4	Chapter 5
GOAL 1: Problem Solving	<ul style="list-style-type: none"> • build new mathematical knowledge through problem solving; • solve problems that arise in mathematics and in other contexts; • apply and adapt a variety of appropriate strategies to solve problems; • monitor and reflect on the process of mathematical problem solving. 	✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓
GOAL 2: Reasoning & Proof	<ul style="list-style-type: none"> • recognize reasoning and proof as fundamental aspects of mathematics; • make and investigate mathematical conjectures; • develop and evaluate mathematical arguments and proofs; • select and use various types of reasoning and methods of proof. 	✓ ✓	✓	✓ ✓	✓ ✓ ✓	✓ ✓
GOAL 3: Communication	<ul style="list-style-type: none"> • organize and consolidate their mathematical thinking through communication; • communicate their mathematical thinking coherently and clearly to peers, teachers, and others; • analyze and evaluate the mathematical thinking and strategies of others; • use the language of mathematics to express mathematical ideas precisely. 	✓ ✓ ✓ ✓	✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓
GOAL 4: Connections	<ul style="list-style-type: none"> • recognize and use connections among mathematical ideas; • understand how mathematical ideas interconnect and build on one another to produce a coherent whole; • recognize and apply mathematics in contexts outside of mathematics. 	✓	✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓
GOAL 5: Representation	<ul style="list-style-type: none"> • create and use representations to organize, record, and communicate mathematical ideas; • select, apply, and translate among mathematical representations to solve problems; • use representations to model and interpret physical, social, and mathematical phenomena. 	✓	✓ ✓ ✓	✓ ✓	✓ ✓ ✓	✓ ✓