Grade descriptor for MMAT5120 Topics in Geometry

Grades	**Descriptors**
A	Demonstrates well integrated knowledge and a deep understanding of the basics of various Klein geometries including Mobius, Hyperbolic, and Elliptic geometries (both plane and solid); shows perfect logical rigorous arguments; able to completely solve unfamiliar and nonstandard problems, and provide innovative approaches to challenging ones
A-	Demonstrates good knowledge and a strong understanding of the basics of various Klein geometries including Mobius, Hyperbolic, and Elliptic geometries (both plane and solid); shows almost impeccable rigor in deduction; able to provide highly accurate solutions to unfamiliar and nonstandard problems
B	Demonstrates essential knowledge and a good understanding of the basics of various Klein geometries including Mobius, Hyperbolic, and Elliptic geometries (both plane and solid); shows successful derivation with rigor; able to identify and apply appropriate theorems to solve unfamiliar but standard problems
C	Demonstrates satisfactory knowledge and an understanding, perhaps with gaps, of the basics of various Klein geometries including Mobius, Hyperbolic, and Elliptic geometries (both plane and solid); shows reasonable but imperfect attempt in logical deduction; able to solve slight variations of routine problems
D	Demonstrates disconnected knowledge and only a limited understanding of the basics of various Klein geometries including Mobius, Hyperbolic, and Elliptic geometries (both plane and solid); shows sketchy argument with barely rigorous logic; able to solve routine problems
Fail	Unable to demonstrate sufficient knowledge and understanding of the basics of various Klein geometries including Mobius, Hyperbolic, and Elliptic geometries (both plane and solid); shows very little real attempt in deductive argument; unable to solve the simplest type of problems