

ALGEBRA I RUBRIC

STUDENT _____

DATE _____

CRITERIA	4 Proficient with distinction	3 Proficient	2 Below proficiency	1 Significantly below proficiency
Problem solving Problem identification	Clearly and skillfully identifies the relevant problem, question or task and distinguishes between useful and extraneous information. 5.1.1 and 5.1.2	Identifies the relevant problem, question or task and distinguishes between useful and extraneous information. 5.1.1 and 5.1.2	Identifies part of the problem, question or task and distinguishes between some useful and extraneous information. 5.1.1 and 5.1.2	Incorrectly identifies the problem, question or task and/or neglects to distinguish between useful and extraneous information. 5.1.1 and 5.1.2
Problem solving strategies	Chooses and applies more than one appropriate problem-solving strategies 5.1.3 <ul style="list-style-type: none"> • make an organized list • create a diagram/picture/chart • organize data with a graph or table • determine a pattern • identify and use formulas • work backwards • make a simpler problem • create a mathematical model • trial and error • work backwards • use logical reasoning • simulate the problem 	Chooses and applies an appropriate problem-solving strategy 5.1.3 <ul style="list-style-type: none"> • make an organized list • create a diagram/picture/chart • organize data with a graph or table • determine a pattern • identify and use formulas • work backwards • make a simpler problem • create a mathematical model • trial and error • work backwards • use logical reasoning • simulate the problem 	Chooses and applies a problem-solving strategy that may not be the most appropriate 5.1.3 <ul style="list-style-type: none"> • make an organized list • create a diagram/picture/chart • organize data with a graph or table • determine a pattern • identify and use formulas • work backwards • make a simpler problem • create a mathematical model • trial and error • work backwards • use logical reasoning • simulate the problem 	Chooses and applies an inappropriate strategy 5.1.3 <ul style="list-style-type: none"> • make an organized list • create a diagram/picture/chart • organize data with a graph or table • determine a pattern • identify and use formulas • work backwards • make a simpler problem • create a mathematical model • trial and error • work backwards • use logical reasoning • simulate the problem
Reasoning and Proof Conclusions	Insightfully uses informal and formal reasoning and proof to explain and justify conclusions. 5.2.2	Uses informal and formal reasoning and proof to explain and justify conclusions. 5.2.2	Attempts to use informal and formal reasoning and proof to explain and justify conclusions. 5.2.2	Neglects to use informal and formal reasoning and proof to explain and justify conclusions. 5.2.2
Communication Representation of Ideas	Eloquently articulates ideas clearly and logically in written and/or oral form. 6.1.1	Articulates ideas clearly and logically in written and/or oral form. 6.1.1	Articulates ideas somewhat clearly and/or logically in written and/or oral form. 6.1.1	Neglects to articulate ideas clearly or logically in written and/or oral form. 6.1.1

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Connections and Representations	Chooses and explains appropriate representations and mathematical language (e.g., <i>spreadsheets, geometric models, algebraic symbols, tables, graphs, matrices</i>) to present ideas clearly and logically for a given situation. 6.2.1	Chooses appropriate representations and mathematical language (e.g., <i>spreadsheets, geometric models, algebraic symbols, tables, graphs, matrices</i>) to present ideas clearly and logically for a given situation. 6.2.1	Chooses and uses some representations and mathematical language (e.g., <i>spreadsheets, geometric models, algebraic symbols, tables, graphs, matrices</i>) to present ideas for a given situation. 6.2.1	Chooses and uses inappropriate representations and mathematical language (e.g., <i>spreadsheets, geometric models, algebraic symbols, tables, graphs, matrices</i>) to present ideas for a given situation. 6.2.1
Solution	Produces a correct solution.	Produces a correct solution with a minor error.	Produces a partially correct solution that may include basic computation errors,	Produces an incorrect solution.
Reflections	Thoroughly reflects on the reasonableness of the answer and identifies strengths and weaknesses of the process. 6.1.3 and 6.3.4	Reflects on the reasonableness of the answer and identifies strengths and weaknesses of the process. 6.1.3 and 6.3.4	Attempts to reflect on the reasonableness of the answer and attempts to identify strengths and weaknesses of the process. 6.1.3 and 6.3.4	Neglects to reflect on the reasonableness of the answer and neglects to identify strengths and weaknesses of the process. 6.1.3 and 6.3.4