

Math Tasks Rubric

Exceeds: E Proficient: PR Developing Proficiency: DP Does Not Meet: DNM

	Understanding
E-5	<ul style="list-style-type: none"> • Complete understanding demonstrated in all problem solving steps (steps have to be included) • Images illustrating the work are clearly constructed, correctly labeled and demonstrate complete understanding of the task and the model (images have to be included) • Answers to all questions are thorough, relevant and thoughtful • Solution is enhanced with relevant references or resources beyond the given materials <i>Possible examples</i> – Connecting the math task work to the big picture via: <ul style="list-style-type: none"> ○ Additional class ideas and references (examples referenced-articles or competency readings) ○ The mathematics of a conference presentation that you attended (well described) ○ Educationally relevant web resource (examples given, referenced and not part of assignment) ○ CCSS math task resources (beyond simple standard references, see CCSS resource page)
E/PR-4	<ul style="list-style-type: none"> • Complete understanding demonstrated in all problem solving steps (steps have to be included) • Images illustrating the work are clearly constructed, correctly labeled and demonstrate complete understanding of the task and the suggested model (images have to be included) • Answers to all questions are thorough, relevant and thoughtful
PR-3	<ul style="list-style-type: none"> • Adequate understanding demonstrated in all problem solving steps • Images demonstrate understanding, are clearly constructed and labeled • Answers to all questions are complete
PR/DP-2	<ul style="list-style-type: none"> • Partial, but not complete understanding demonstrated in given problem solving steps OR • Applicable images are included but unclear or don't demonstrate understanding of concepts or the model under study
DP-1	<ul style="list-style-type: none"> ▪ Work does not demonstrate much understanding of the problem
DNM-0	<ul style="list-style-type: none"> ▪ Work is missing or does not demonstrate any understanding of the problem

Accuracy and Completeness	
E-5	<ul style="list-style-type: none"> All problem solving steps are included, complete and accurate (all work is shown) All associated images are included, complete, and accurately labeled and accurately and fully use the suggested model Answers to questions enhanced with relevant references, accurate extensions and ideas <p><i>Possible examples</i> – Extending the math task work by:</p> <ul style="list-style-type: none"> Solving the problem in more than one way Extending the solution beyond the question asked Connecting the problem solving path to a related math idea or question Connecting the problem solving path to a referenced article, reading or educationally relevant web resource (examples given, referenced and not part of assignment)
E/PR-4	<ul style="list-style-type: none"> All problem solving steps are included, complete and accurate (all work is shown) All associated images are included, complete, and accurately labeled and accurately and fully use the suggested model
PR-3	<ul style="list-style-type: none"> Work is complete and accurate with clear solution path except for minor accuracy error, minor lack of completion or minor issues with images
PR/DP-2	<ul style="list-style-type: none"> Work is partially complete <p>OR</p> <ul style="list-style-type: none"> Work is partially accurate or missing part of the solution path or images
DP-1	<ul style="list-style-type: none"> Work is partially complete <p>AND</p> <ul style="list-style-type: none"> Work is partially accurate or missing part of the solution path or images
DNM-0	<ul style="list-style-type: none"> Work is missing or incorrect

Communication	
E-5	<ul style="list-style-type: none"> All work, all problem solving steps, all model uses and all reflections are clearly and thoroughly explained (steps have to be included) Embedded images are crisp (not blurry) or drawn particularly well (images must be included) Embedded images are clearly and completely labeled (images must be included) Work is displayed precisely with answers and images contiguously, precisely and pleasingly integrated throughout the response in a way that is easy for any reader to follow Work is typed or handwritten very neatly and clearly Well written, and free from grammatical and spelling errors
E/PR-4	<ul style="list-style-type: none"> All work, all problem solving steps, all model uses and all reflections are clearly and thoroughly explained (steps have to be included) Embedded images are crisp (not blurry) or drawn particularly well (images must be included) Embedded images are clearly and completely labeled (images must be included) Well written, and free from grammatical and spelling errors
PR-3	<ul style="list-style-type: none"> Some work, problem solving steps, model use or reflections are only partially explained <p>OR displayed in an unclear or confusing manner</p> <ul style="list-style-type: none"> Included images are crisp (not blurry or sloppy) and clearly communicate process and work
PR/DP-2	<ul style="list-style-type: none"> Some work, problem solving steps, model use or reflections are only partially explained <p>AND displayed in an unclear or confusing manner</p> <p>OR</p> <ul style="list-style-type: none"> Included images are blurry or poorly drawn
DP-1	<ul style="list-style-type: none"> Work, problem solving, model use and reflections are only partially explained and are displayed in an unclear or confusing manner, and included images are blurry or poorly drawn
DNM-0	<ul style="list-style-type: none"> Work, problem solving, images and reflections are unclear or missing