Final Task: Game Designer

You are a game designer, and you have been given the task of creating a math game that can be used as a tool for teachers to determine how much students have learned throughout the school year. You have been given specific directions about how many and what type of questions the game must contain, but the design can be all yours.

Your game must be made for at least three to four people to play at one time. Work with your group to decide who will be responsible for writing the questions and who will be responsible for making the game. Use the color codes below for each problem to easily identify each category. You will be given time during class to work on the game design and the math problems. Use your time wisely and stay focused.

Problems that Include:	Percent of Problems:	Required Number of Problems:	Color Code:	Standards:
Geometry: Transformations, Congruence and Similarity	12%		Green	MCC8.G.1; G.2; G.3; G.4; G.5
Exponents	15%		Blue	MCC8.EE.1; EE.2; EE.3; EE.4; EE.7a; EE.7b; NS.1; NS.2
Geometric Applications	10%		Yellow	MCC8.G.6; G.7; G.8; G.9; EE.2
Functions	30%		Red	MCC8.F.1; F.2; EE.5; EE.6; F.3
Data and Statistics	10%		Orange	MCC8.F.4; F.5; SP.1; SP.2; SP.3; SP.4
Systems of Equations	20%		Purple	MCC8.EE.8a; EE.8b; EE.8c

Questions Requirements: 35 math problems categorized in the following manner.

*->Keep a written record of the process as you develop the game. The written record will be turned in. This written record should include:

- a) a rough draft of game design (sketch on paper),
- b) calculations used to determine required number of problems for each category,
- c) copy of <u>ALL</u> questions with answers,
- d) game directions (neatly and legibly handwritten or typed),
- e) and the self-checklist (the back of this paper completed and signed).

AME CHECKLIST NAME	
UE AT THE START OF CLASS	!
udents will choose to work with a partner, group of three, o	r group of four.
Clear directions: How to Play the Game (neatly and legibly	handwritten)
35 problem / question cards:	
Geometry: Transformations, Congruence, Similarity	12%=
Exponents	15%=
Geometric Applications	10%=
Functions	30%=
Data and Statistics	10%=
Systems of Equations	20%=
Answer Key	
Each category must be color coded	
Board game is for 3 to 4 people to play	
All game pieces must be in a baggie or container	
**Timeline of Items to turn in:	
Calculations used to determine required number of problems [date
Copy of handwritten or typed game directions [date]
Copy of problems with answers [date]	
Rough draft of game (sketch on paper) [date]
Self-checklist (this paper completed and signed) [date]

complete this project task with my best effort.

Student Signature _____

Parent Signature _____

Final Task Rubric: Game Designer

	Beginning Designer	Practicing Designer	Expert Designer
	Directions are included but limited in	Directions are included but may be	Directions are included and provide
	details or may or may not be clear.	limited in details or may or may not be	clear instructions on how to play the
Game Directions	Directions are not neatly handwritten.	clear. Directions are neatly	game. Directions are entirely typed.
		handwritten.	
	0-5 points	5-10 points	10-20 points
	The necessary required (35) number of	The necessary required (35) number of	The necessary required (35) number of
	questions and problems are not	questions and problems are included	questions and problems are included
Required Questions	included in the game to match each	in the game, but may not match each	in the game and match each category
and Problems	category [see checklist]. An answer	category [see checklist]. An answer	[see checklist]. An answer key is
	key is not included.	key is included.	included.
	0-20 points	20-40 points	40-50 points
	The game is not original in design or is	The game has elements of original	The game is original in design and the
	not legible or colorful. The color codes	design but may not be colorful. The	color codes for each category are
Creativity, Neatness,	for each category may or may not be	color codes for each category may or	correct. The game board is legible and
and Originality	correct. Game pieces are not included.	may not be correct. Game pieces are	colorful. Game pieces are included.
		included.	
	0-10 points	10-15 points	15-20 points
	Student showed little to no effort in	Student showed little effort in	Student showed much effort in
Effort and Time	completing assignment. Class time was	completing assignment. Class time was	completing assignment. Class time was
Management	not used appropriately.	used appropriately.	used appropriately.
	0-10 points	10-15 points	15-20 points
	Assignment was not turned-in or was	Assignment was turned-in 1 day late.	Assignment was turned-in on time.
Punctuality	turned-in more than 2 days late.		
	0-3 points	7 points	10 points

Student Overall Final Grade: _____ / 120

Standards	115-120 points = 4	Traditional	108-120 points = A
Based	100-114 points = 3	Grading:	96-107 points = B
Grading:	84-99 points = 2	_	84-95 points = C
C C	0-83 points = 1		72-83 points = D
	1		0-71 points = F

GAME DESIGNER GRADE SHEET [alternate]

GROUP MEMBERS

FINAL GRADE_____ / 120

PLAYABILITY (10 points)	YES	NO	SOME	COMMENTS
Are game <u>directions/instructions</u> included in the game?	2	0	1	
Are <u>directions/instructions easy to</u> <u>understand</u> ?	2	0	1	
Are game pieces and/or necessary accessories included in game?	2	0	1	
Is game created for at least <u>3-4 people</u> to play?	2	1		
Is game <u>fun</u> ? (This is based on student questioning.)	2	1		

GAME DESIGN REQUIREMENTS (30 points)	YES	NO	SOME	COMMENTS
Is game <u>appealing</u> to the eye? Is game <u>neat</u> in appearance?	10	5	8	
Was <u>effort</u> put into creating the game? (creativity, colorful, original)	10	5	8	
Is game board and/or pieces <u>legible</u> and understandable?	10	5	8	

GAME LOGISTICS {PROBLEMS} (70 points)	YES	NO	SOME	COMMENTS
Is <u>appropriate number of questions</u> included in game as outlined on checklist?	55	30	40	
Is an answer key included in game?	10	2	7	
Is each different category of questions <u>color</u> <u>coded</u> ?	5	1	3	

PUNCTUALITY (10 points)	ON TIME	1 DAY LATE	2+ DAYS LATE	COMMENTS
Game turned in	10	7	3	

Standards	115-120 points = 4	Traditional	108-120 points = A
Based	100-114 points = 3	Grading:	96-107 points = B
Grading:	84-99 points = 2		84-95 points = C
	0-83 points = 1		72-83 points = D
			0-71 points = F