

# Math Strategies Across the Curriculum

	<b>Strategy</b>	<b>Subject Area</b>
1	Have students involved in tracking their grades, calculating percentages, etc. based on established rubric.	All
2	Where Math concepts are concerned, pair students so they can problem-solve together.	All
3	Utilize pencil and paper rather than calculator to understand operations such as division and multiplication.	All
4	Ensure students can calculate percentages (grades, attendance, etc.).	All
5	Use currency examples for addition, subtraction, and percentage.	All
6	Checking, Savings, Investment account balances.	All
7	Use “Icebreakers” in all classes related to Math.	All
8	Employ, utilize and practice Math-related reasoning and test taking skills in all subject areas.	All
9	Have Senior Project include a Math application component.	All
10	Use and understand statistics, surveys, and probability.	All
11	Metric system usage and understanding as well as non-metric measurements.	All
12	Angles/shapes/symmetry in geometric art, architecture	Art
13	Ratios in various applications.	Assorted
14	Stock Market, calculations for running a mock business.	Business
15	Create a mock country with full economic profile.	Business
16	Review of elections-votes, percentages, and electoral votes vs. popular votes.	Civics
17	Angles/shapes/symmetry in geometric art, architecture.	Engineering Tech.
18	Calculating percentages, ordering items into tables/graphs.	Environmental Science
19	Calculate efficiency in usage of materials.	FCS
20	Calculate yield of finished food product based on measurements of ingredients, etc.	FCS
21	Tell time; use flashcards with equations that can be explained in the new language.	Foreign Language
22	Be a shop owner, customer, (role-playing) and generate sales and purchases based on those roles.	Foreign Language
23	Itinerary for imaginary trip around the US/World. Work out mileage; travel costs, food, etc.	Geography
24	Angles/shapes/symmetry in geometric art, architecture.	Graphics
25	Track weight gain/loss, strength, body mass etc.	Health
26	Describe equivalency of money and currency devaluation over the past century.	Language Arts
27	Checking, savings, investment account balances.	Life Skills
28	Stock Market, calculations for running a mock business.	Marketing
29	Paraphrasing of Math problems in own language – verbal and written.	Math

	<b>Strategy</b>	<b>Subject Area</b>
30	Look up currency exchange rates (on internet, in newspapers, etc.) and compare currencies: how much a fixed amount of U.S. money could buy in other countries, what items that amount could buy, income comparisons, etc.	Others
31	Paraphrasing of Math problems in own language – verbal and written.	Others
32	Be a shop owner, customer, (role-playing) and generate sales and purchases based on those roles.	Others
33	Look up currency exchange rates (on internet, in newspapers, etc.) and compare currencies: how much a fixed amount of U.S. money could buy in other countries, what items that amount could buy, income comparisons, etc.	Pacific Rim
34	Students should calculate percentages; ratios, improvement increments, etc. based on performance.	PE
35	Track weight gain/loss, strength, body mass etc.	PE
36	Review and calculate exports and imports – from state region nation, hemisphere, etc. Use graphs.	Social Studies
37	Create a mock country with full economic profile.	Social Studies
38	Parliamentary process, including the outgrowth of salaries, taxation, investments, treasury bonds – from an International Monetary perspective.	Social Studies
39	Economic Fluctuations: Depression, Recession, Prosperity, Stock Markets, Credit and Borrowing (Interest).	U.S. History
40	Start a colony – determine amounts, calculations of supplies, inventory, etc.	U.S. History
41	Calculate efficiency in usage of materials.	Woods
	<i>Observation: calculators and computers may have made Math a lost art.</i>	
	<i>Observation: Kids who don't "have it" by High School need to be caught in younger grades and worked with in High School grades.</i>	
	<i>Recommendation: Establish school wide practice (enforced administratively) of using Math problems.</i>	