

MODIFICATION OF METHODS

MATHEMATICS

Instructional strategies may include the following objectives:

- * to help students build card files and glossaries on mathematics vocabulary
- * to show the same information through a variety of different graphs and visuals
- * to encourage students to underline key words or important facts in their written assignments
- * to encourage categorizing of mathematical words into meaningful groups
- * to pair students for team learning
- * to teach English expressions for mathematical operations such as "square", "add", and "multiply"
- * to teach measurement terms through use of the actual instruments and devices whenever possible
- * to teach the names of currency, coins, and monetary units
- * to teach words that indicate quantitative relationships such as "more", "less", "larger", and "twice as many"
- * to teach prefixes peculiar to the language of mathematics such as "bi-", "deci", "centi", and "kilo"

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SCIENCE

Instructional strategies may include the following objectives:

- * to practice cause and effect relationship in the environment, laboratory, and on field trips facilitated by providing language and visual cues
- * to teach the special vocabulary of the scientist, particularly verbs such as discover, classify, and hypothesize
- * to help students build notebooks of their hypotheses, materials, procedures, data, and conclusions of experiments and filed experiences
- * to ask numerous questions which require higher level thinking responses
- * to limit the number of variables in laboratory experiments
- * to show the same information through a variety of different charts and visuals
- * to develop meanings through the science materials and activities rather than in terms of the equivalent words of the students' vernacular since direct translation often do not convey the exact meaning
- * to stress definitions of terms based on the students' observations

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- * to read a variety of sources to highlight contributions of scientists, inventors, and researchers
- * to contrast interrogative, negative, and affirmative statements drawn from the science lesson
- * to encourage careful, thoughtful reading of short selections in which one main idea is presented
- * to encourage students to underline key words or important facts in written student assignments

MODIFICATIONS OF METHODS

SOCIAL STUDIES

Instructional strategies may also include the following objectives:

- * to help students build individual card files on needed vocabulary for social studies
- * to show the same information through a variety of different graphs and visuals
- * to build vocabulary needed to read maps and legends as these are discussed
- * to encourage students to underline maps and legends as these are discussed
- * to encourage students to underline key words or important facts in their written assignments
- * to teach necessary vocabulary for sorting categories of social studies concepts into groups and to explain this vocabulary in words known to the student
- * to use student pairs for team learning (cooperative learning) especially for reports
- * to teach the vocabulary helpful in evaluating material for logic of written expression and for categorizing as opinion or fact
- * to write shorter and less complex sentences and paragraphs with fewer sentences for easier comprehension

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- * to use language experience techniques in discussing concepts and ideas
- * to teach the words that signal sequence
- * to check understanding of written language that may convey complex concepts
- * to show students how to use a timeline to arrange and sequence important facts

