

## CRITICAL THINKING PROBLEMS

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### OBJECTIVE/RATIONALE

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Critical thinking is needed in every aspect of a medical career. The student will use critical thinking skills to solve a health related problem.

TEKS 121.14 (c) 5C

TAKS ELA 1, 4, 6  
Mathematics 9, 10

National Science Education Standards A9-12; C9-12; E9-12; F9-12; G9-12

National Health Care Skills Standards .01, .02, .03, .04, .05, .06, .07, .08, .09

National Curriculum Standards for School Mathematics S1; S3

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### KEY POINTS

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- I. Developing critical thinking skills related to reading and writing:
  - A. Aid in reading comprehension and interpretation - Learning medical terminology will give students the ability to understand medical language and comprehend technical information.
  - B. help students evaluate and apply the technical material that is read - Knowledge of medical terminology allows students to make decisions concerning tasks as a health care worker
  - C. help students with planning and organizing their thoughts - In health care, writing clear and logically depends on planning and the ability to use medical terminology
- II. Developing critical thinking skills in math and science:
  - A. Aids in problem solving
    - a. Problem solving requires knowledge of scientific inquiry and use of mathematic functions and facts.
    - b. Knowledge of mathematical computations and conversions allows accurate calculations to be made regarding health care problems.
- III. Developing critical thinking skills helps health care workers analyze, evaluate and act on information.

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### ACTIVITIES

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- I. Evaluate a critical thinking problem pertaining to a current topic in medical microbiology. Design a multimedia presentation to illustrate findings.

**Teacher's note:** These can be done as often as once a week, once a grading period, or once a semester. Students can work alone or in pairs or groups.

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## MATERIALS/RESOURCES

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Internet resource: <http://www.newmedia.kent.edu/microbiology/default.htm>  
called “Problem of the Week”

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## ASSESSMENT

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Multimedia Presentation Rubric

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## ACCOMMODATIONS

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For reinforcement, the student will identify and define medical and unfamiliar terms in the “Problem of the Week”.

For enrichment, the student will evaluate additional critical thinking problems archived on the web site.

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## REFLECTIONS

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