

# PPBOCES/UCCS

## Teacher-in-Residence Program

### Reading, Writing, and Mathematics Across the Curriculum

#### Reading

1. Use reading to learn by asking students in the content areas to:
  - identify the main idea of a passage
  - summarize a passage
  - note fact from opinion,
  - sequence events
  - identify the meaning of words
  - identify cause and effect
  - compare and contrast ideas
  - locate information in a passage
  - interpret graphs and charts
  - make generalizations
  - draw conclusions from a passage
2. Use reading to learn by asking students in the content areas to apply reading comprehension strategies such as:
  - Before, During and After (see back)
  - SQ3R (see back)
  - Think Aloud (model mental processes that you, the teacher, use while reading)
  - K-W-L (what do students **K**now before they read, what do they **W**ant to know prior to and during reading, and what they **L**earned as a result of reading)

#### Writing

1. Use writing to learn by asking students in the content areas to:
  - use correct grammar
  - use correct spelling,
  - use complete and correct sentence structure
  - create neat papers
2. Use writing to learn by asking students in the content areas to apply the Six Trait Writing process.
3. Use writing to learn by asking students in the content areas to:
  - apply the writing process---Pre-Writing, Drafting, Revising, Proofreading and Publishing (see back)

- define the purpose of a piece of writing, e.g., write to inform, write to persuade, write to give directions, etc.,
- apply the use of graphic organizers

## **Mathematics**

1. Use mathematics to learn by asking students in the content areas to:

- Add, subtract, multiply and divide
- Find percentage
- Use decimals
- Use fractions
- Make inferences and estimations using mental arithmetic
- Problem solve using numbers
- Use various geometric shapes
- Use graphs, charts and symbols
- Measure using a variety of tools and techniques
- Clearly communicate verbally and/or in writing the reasoning behind the solution to problems involving numbers.