STEMs TO SUNSHINE

Intervention and Enrichment Maps

5th Grade Solar Purification Aids Water Crisis

Differentiated Instruction

- Alter writing assignments to accommodate different learners
- Small group activities allow for peer collaboration and tutoring
- Provide leveled books and articles
- Allow calculators and a customary capacity conversion chart

Re-Teaching Strategies

- the process water goes through during solar distillation by viewing the animation on the water cycle at
- Students will create mnemonic device to remember skills, formulas, and key facts.
- Students will create thinking maps and flashcards on points such as plot, set, characters, and vocabulary
- literacy journal on each text with notes on themes, supporting details, and draw pictures of events in
- To aid in comprehension of texts, students reread parts of text with peers and teacher.
- Students will be allowed to use calculators to convert capacities.
- it into the pint, quart, and gallon to learn the capacity of each in cups. Students will fill a pint with water and pour it into the

Enrichment Strategies

- Students will complete the distillation experiment using different kinds of solutions like juice, lemonade, soda, etc. and compare the results with distillation of salt water. Students will write a report explaining the procedure and results.
- using bowls made of different materials, such as glass, metal, ceramic and plastic to discover if transparency or opacity affect the rate of accumulation in the solar still. Students will create a graph displaying the rate of accumulation for each type material. Students
- Students will write a creative story or comic strip about the journey a water molecule takes during the distillation process. Students must show understanding of the distillation process and where the stages of the water cycle occur during the process.
- Students will draw the distillation experiment and label the stages of the water cycle.
- Students can convert customary units to metric units.