

- How well do your students do on ACT science?
- Do you know the benchmark for science?
- Do you know the goals and objectives covered on the ACT?
- Do you think you are preparing students to do well on the ACT?

www.rohmscience.weebly.com

ACT Up Science

According to the UChicago Consortium on School Research: Is test prep the answer?

"You may have put your lesson plans on hold, convinced that months of practicing test questions will boost scores. But guess what? It doesn't help. In fact, sometimes it hurts. ACT scores are actually lower in schools where teachers spend large amounts of class time on test prep. So what works? Good grades. Demanding instruction. An environment focused on preparing students for college."

ACT Up KNOW THE STANDARDS

- Science Curriculum Review Worksheet- handout
 - IOD = interpretation of data
 - SIN = scientific investigation
 - EMI = evaluation of models, inferences, and experimental results
- What is NOT in the standards?

ACT Up

How to prepare for Data Representation Passages:

- 1. Select data from simple or complex data presentation
- 2. Find information in text that describes complex data
- B. Compare or combine data from simple or complex presentation
- 4. Translate information into a table, graph, or diagram
- 5. Perform interpolation or extrapolation
- 6. Describe how variable values change in relationship to each other
- 7. Determine the mathematical relationship that exists between data
- 8. Analyze presented information when given new information

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How to prepare for Research Summaries Passages:

- 1. Find basic information in text describing experiment
- 2. Understand the tools and functions used in an experiment
- 3. Understand experimental design
- 4. Identify variables and controls in an experiment
- 5. Identify similarities and differences between experiments
- 6. Which experiment used a certain tool or method
- 7. Predict the results of an additional trial
- 8. Determine the hypothesis
- 9. Determine an alternate method for testing hypothesis
- 10. Determine which hypothesis, prediction, conclusion is consistent with data

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How to prepare for Conflicting Viewpoints Passages:

- 1. Identify strengths and weaknesses of models
- 2. Summarize a scientist's point of view
- 3. Identify similarities and differences in arguments
- 4. Make predictions based on a viewpoint
- 5. Identify statements that agree with a viewpoint
- 6. Differentiate between facts and a scientist's opinion



Resources for ACT preparation:

ACT.org Prepscholar.com Kaplan- has free, live webinars Varsitytutors.com Magoosh.com



Resources for ACT preparation:

Teachers Pay Teachers www.rohmscience.weebly.com Google

HAULT method for reading graphs

H = heading

A = axes

U = units

L = legends

T = trends

Instructions for **Teachers Pay Teachers**:

1. Create an account

2. Search:

Double line graph

HAULT method

CER (claim, evidence, reasoning)

Science literacy

ACT science

Graphing and data analysis

3. Set parameters of search by grade, by subject, by price

Teachers Pay Teachers that I referenced today

- Graphing and Data Analysis: A scientific method activity by Amy Brown Science
- 2. Analyze and Interpret Data Freebie by Kerry Tracy
- 3. CER Writing Infographic by I Teach Science And
- 4. Scientific Method and Germ Theory by Wandering Minds
- 5. HAULT Method for Data Analysis by House of Science
- 6. Science Literacy Reading Article and Sub Plan by Tangstar Science

