

Backwards engineering through QALMRI

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Activity outline

ACTIVITY	TYPE	SKILL DEVELOPMENT	LEARNING OBJECTIVES
1. Mini-experiment	Backwards engineering	<ul style="list-style-type: none">• Gathering, analyzing and interpreting data in class/at home	<ul style="list-style-type: none">• Application of fundamental methods of research (CUNY 4)
2. QALMRI	Questionnaire-based discussion	<ul style="list-style-type: none">• Generating scientific questions• Critical evaluation of experiment/peer-reviewed article	<ul style="list-style-type: none">• Evaluate evidence and arguments critically or analytically (CUNY 2)• Produce well-reasoned written or oral arguments using evidence to support conclusions (CUNY 3)

Let's do it!

- 1. Memorize 13 words**
- 2. Write down as many as you can remember**

Interpret with QALMRI

LETTER	DESCRIPTION	DISCUSSION
Q	Question	What question the article is addressing? Why is this question important? What are broad and specific questions?
A	Alternatives	What are the hypotheses?
L	Logic	What is the logic of the hypothesis (if A is true, then what should happen?)
M	Method	What is / are <ul style="list-style-type: none">• the independent variable• the dependent variable• participants• experimental materials• procedure
R	Results	What was the outcome of the experiment?
I	Inferences	What inferences about the hypotheses (specific and big questions) can be made based on the results?

References

Sorensen, D. A., & Soutter, C. (2002). *Teaching Writing for Psychology at Harvard: A Guide for Sophomore Tutors in Psychology*. President and Fellows of Harvard University.