1. **Overall:**
   A. What are the independent and dependent variables?
   B. What is the relationship being studied?
   C. What are the study findings, if any?

2. **External Validity (first do #1, then...)**
   A. What is the sampling strategy?
   B. To what population/time/setting is the study being generalized/targeted (either implied or actual)? (Look for author wording confirming the attempted generalization)
   C. What does the sampling strategy and the actual time and settings of the study imply about the merits of any generalization found in (b) above? (Is there a good match, or do you see some mismatches?)
   D. To what extent do you think there is a problem of generalization? In other words, do you think the relationship under investigation (see 1.B.), or the results of the study (see 1.C.) would have potential to change given any of the issues raised in 2.C?

3. **Construct Validity (first do #1, then...)**
   A. What are the constructs in the study intended to measure?
      i. State the idea(s) behind the dependent measures
      ii. State the idea(s) behind the independent measures
   B. How is each construct in the study operationalized?
      i. State how dependent measures are operationalized
      ii. State how independent measures are operationalized
   C. What are the strengths and/or weaknesses of the observed operationalizations?
      i. These comments may include breadth of definition or measurement of the variables being considered and/or the means by which measurements were taken.
      ii. Note that this can be very similar to external validity, in the sense that a variable within the relationship might be a setting, or a property of a sample - which would mean that the construct partially defines the generalization of the paper.
   D. Is the construct validity issue as described in 3.C likely to alter the results of the study?

4. **Internal Validity (first do #1, then...)**
   A. What is the study’s design?
   B. Does the study’s design establish temporal precedence?
   C. Does the study’s design establish covariation of cause and effect?
   D. To what extent does the study’s design control for alternate interpretations of the causal relationship? Does it control for:
      a. Single group threats?
      b. Multiple group threats?
      c. Social interaction threats?
   E. Using your response to A-D, to what extent is the assertion that the relationship under investigation is causal a reasonable one?
   F. In the event of observed weak internal validity, can you suggest an alternative causal interpretation?

[e. Measurement issues II - conclusion validity - beyond scope of KNR 497, but should be considered anyway...]
   A. Are the measures reliable and valid?
   B. Is the sample large enough to validate the analysis strategy used?
   C. Is the relationship really there? Likelihood of type I and type II errors, statistical power and so on
   D. If the relationship is really there (i.e. reliable), then is it practically significant? [effect size]
   E. The end]