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`Edit` # Week 3: How to read and summarize articles; Review of concepts from research methods. (Objectives 1, 7, 3)

`Edit` ## Before Tuesday Class:

Read the article, <u>Poverty Impedes Cognitive Functioning,</u> linked to below. In class, you will complete a quiz on the contents of the article. It is designed so that you should receive full credit if you have carefully read the article.

`Edit`   📄 **PovertyImpedesCognition.pdf**

`Edit` ## Tuesday in-class:

At the indicated time, you will need to complete the individual quiz (IA, Quiz #2), linked to below. We will discuss the main points of this article and learn how to extract useful information from an article. We will also learn how to usefully summarize the important points of a research article for other people. In class, you should complete Team Activity 4, linked to below.

`Edit`   🖊 **IA Quiz2 - Poverty Impedes Cognition**
`Edit`   📖 **TA4: Summarizing articles**
`Edit`   📄 **ExpSp15_Class5_PovertyImpedes.pdf**

`Edit` ## Before Thursday Class:

Complete the following pre-quiz, linked to below (IA Quiz #3). Read on for information about how this will affect your grade.

`Edit`   🖊 **IA Quiz 3 - validity, variables etc**

`Edit` ## Thursday in-class

We will begin a review of basic experimental methods. We will start with independent and dependent variables, operational definitions, and the concepts of construct and internal validity, and threats to validity. You should have learned this information in Research Methods. Knowing this material is essential for this class, so we will review it in the next few class periods. Please take the pre-quiz, linked to above (before class). If you are happy with your grade, this means you already know the material, and you do not need to come to class. Otherwise, come to class. In class, you will have the opportunity to replace your pre-quiz class by competing Team Activity 5, linked to below.

`Edit`   📖 **TA5: Operational definitions, variables, and validity**
`Edit`   🖊 **Team Activity 5 (Quiz on operational defs and validity)**

`Edit` Following is a link to the slides from today's class.

`Edit`   📄 **ExpSp15_Class6_ReviewExptMethods1.pdf**

`Edit` ## LAB:

Overview: Completing a literature search and preparing to summarize an article.

In this lab, you will practice finding articles that are relevant to our research topic. These articles will be helpful to you in writing your research paper. Today, you will search for articles, read through abstracts to determine those that are most useful. You will also read through and summarize at least one article. To demonstrate your involvement, you will need to complete Team Activity 6, linked to below. Please note that you are welcome to find, download, and read as many articles as you like. Team Activity 6 is the minimum required.

After you complete TA6, you should prepare to present this article to the whole class. Pay attention to the concepts we discussed in class, and reference the Instructions for Presenting and Article (also linked to below). Next lab, you will practice presenting your article to Dr. Allred/TAs, so you should make sure your presentation is complete by the end of lab. If you have trouble with either the concepts (what should I present?) or with the technology (how do I present it?), please ask.

Finally, as you are going through this process, start thinking about what hypothesis you would like to test in your research study.

Edit   📖 **TA6: Literature search**

Edit   📖 **Instructions: How to summarize and article**

Edit # Readings:

The following readings provide useful information. Note that this is all information that you should already have learned in Research Methods. You may refer to your textbook from that course. Goodwin Ch 3 has useful information about operational definitions (the very beginning of the chapter), as well as ideas for developing research questions and information about parts of a research paper.

Strangor Ch 5 discusses reliability and construct validity. You should pay particular attention to construct validity.

This website discusses internal validity and several common threats to internal validity.

Edit   📄 **Goodwin_C3_parts.pdf**

Edit   📄 **Stangor_C5 Reliability and Validity.pdf**

Edit # IE Blog Post 3: In class, we talked about many ways that increasing cognitive load can affect behavior. For example, people who are trying to remember more difficult numbers tend to make less healthy food choices than those trying to remember easy numbers. What is one way *you* have observed cognitive load affecting behavior (your own behavior or others' behavior)?

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