|  |  |  |  |
| --- | --- | --- | --- |
| **Choice condition** | **No-Choice condition** | | **TED Baseline** |
| * In this lesson, we will ask you to set up and evaluate experiments. | | |  |
| * But first, we🡪YOU will select a general area for the experiment. * For example, you might select the general area of psychology * After you select the general area, you will then select a specific topic within that area. * For example, within the general area of psychology, you might select the topic attention to color. * Within that topic, you will select a research question. * For example, within the topic of attention to color, you might select a research question such as does the color of the t-shirt a person is wearing affect attention? * You will set up (but not run) an experiment on the computer to answer the research question that you have selected. | * But first, we will select a general area for the experiment. * For example, we might select the area of psychology * After we select the general area, we will then select a specific topic within that area. * For example, within the general area of psychology, we might select the topic attention to color. * Within that topic, we will select a research question.   For example, within the topic of attention to color, we might select a research question such as does the color of the t-shirt a person is wearing affect attention?   * You will then set up (but not run) an experiment on the computer to answer the research question that we have selected. | | * notes: green-highlighted is currently in RQ mod, as of 1/30/18, AND consistent with script; * Yellow-highlighted: \*should be\* in script, but isn’t. * Blue-highlighted is in demo, rather than current script.) |
| * ~~Then you will work through instruction about designing good experiments.~~   Let’s begin by focusing on one area of science | | |  |
| * Here are some different areas of science. * (state/highlight each area) | | |  |
| * **One area of science is Physical & Chemical Changes** * Within that area, you could study the topic: Crystal growth or Soda/mint reactions * **Another area of science is Heat & Temperature** * Within that area, you could study the topics Ice melting time or temperature of a gas * **Another area of science is Forces & Motion** * Within that area, you could study the topics: * Speed of balls at the bottom of ramps or Time for objects to sink * **Another area of science is Plant Growth**   Within that area, you could study the topics: Flower reproduction or Algae growth | | |  |
| Please select an area for the experiment you will set up: | * **The area we will choose is [A(chosen)].** * **Click on the highlighted picture below.** | |  |
| Within the area of, [**A(chosen)]***,*  please select a ~~one of the two~~ topic ~~below~~ by clicking on a picture below   * **A(chosen)-T1** * **A(chosen)-T2** | Within the area of, [**A(chosen)]***,*  we will select the topic [**A(chosen)-T1].**  Please click on the highlighted picture below   * **A(chosen)-T1** * **A(chosen)-T2** | |  |
| Below are some variables that ~~you could test in this experiment to see whether they affect [outcome]."~~ Might affect the [DVg-Ax-Tx]. You can test one of these variables in your experiment.  [variables stated]  (list the variables below, like in the slide shown) | Below are some variables that we can test in this experiment to see whether they affect [outcome]."  (list the variables below, like in the slide shown) | |  |
| * **A(chosen)-T(chosen)-V1** * **A(chosen)-T(chosen)-V2** * **A(chosen)-T(chosen)-V3** * **A(chosen)-T(chosen)-V4** | * **A(chosen)-T(chosen)-V1** * **A(chosen)-T(chosen)-V2** * **A(chosen)-T(chosen)-V3** * **A(chosen)-T(chosen)-V4** | |  |
|  | | | In this lesson, we will ask you to set up and evaluate experiments. |
| Let’s see how this experiment works. | | | Here is how these experiments work. |
| Here are all of the materials that may be necessary for this experiment.  [materials stated] | | |  |
| **[A(chosen)-T(chosen)-IntroExp]** | | | |
| We can measure the **[DVs-A(chosen)-T(chosen)].** | | | |
| Push the button in the middle of the screen to see how this experiment works. | | | |
| In this experiment, there are only four things we can change. Any of these might make a difference in the **[DVs-A(chosen)-T(chosen)].** | | | |
| These are the 4 variables you can test in this experiment. | These are the 4 variables WE can test in this experiment. | |  |
| #1: The [**A(chosen)-T(chosen)-V1**], which can be [**A(chosen)-T(chosen)-V1-L1]** or **[A(chosen)-T(chosen)-V1-L2],** might make a difference. | | | |
| #2: The [**A(chosen)-T(chosen)-V2**], which is either [**A(chosen)-T(chosen)-V2-L1]** or [**A(chosen)-T(chosen)-V2-L2]**, might make a difference. | | | |
| #3: The [**A(chosen)-T(chosen)-V3**], which can be [**A(chosen)-T(chosen)-V3-L1**] or [**A(chosen)-T(chosen)-V3-L2**], might make a difference. | | | |
| #4: And the [**A(chosen)-T(chosen)-V4**], which can be [**A(chosen)-T(chosen)-V4-L1**] or [**A(chosen)-T(chosen)-V4-L2**]. | | | |
| This also might make a difference. | | | |
| Select the variable you would like to test. This variable is the “independent variable” of your experiment.  The research question you have chosen is:  **Does the [A(chosen)-T(chosen)-V(chosen)] affect the [DVs-A(chosen)-T(chosen)]?**  **[Student given choice of testing different variable/topic/area/or “I like this question.”)** | We will test the following variable: **[A(chosen)-T(chosen)-V(chosen)]**  Please click on the highlighted button below.  Our research question is:  **Does the [A(chosen)-T(chosen)-V(chosen)] affect the [DVs-A(chosen)-T(chosen)]?**  **[RQ here, based on random assignment of other student’s selected question]** | | First, design an experiment to answer this research question:  Does the **[A(chosen)-T(chosen)-V(chosen)] affect the [DVs-A(chosen)-T(chosen)]** |
| OK!  You have chosen as your research question: Does the **[A(chosen)-T(chosen)-V(chosen)] affect the [DVs-A(chosen)-T(chosen)]?**  (When this lesson is finished, you will be able to design an experiment for this RQ.) | (as of 1/30/18, this slide above, in RQ demo, is):  OK!  We have chosen the following research question:  **Does the [A(chosen)-T(chosen)-V(chosen)] affect the [DVs-A(chosen)-T(chosen)]?**  (When this lesson is finished, you will be able to design an experiment for this RQ.)  (Demo only: Please design an experiment for your research question—this can be done either on paper or in Captivate, if possible. Or, maybe have them complete story posttest???) | |  |