What is a research question?	This is the question that you are trying to answer when you do research on a topic or write a research report.
Should a research question be general or specific?	It should be as specific as possible. In some cases, you may make two or more research questions to cover a complex topic.
What is an example of a research question?	For example, if you are studying the effects of sleep on reflexes, you might formulate the following research question: <i>What are the effects of sleep on reflexes?</i> A similar question might be: <i>Does sleep have an effect on reflexes?</i> Or: <i>Is maximum reflex efficiency achieved after eight hours of sleep?</i> The goal of your research is to find the answer to the research question.
What is a hypothesis?	A hypothesis is a statement that can be proved or disproved. A research question can be made into a hypothesis by changing it into a statement. For example, the third research question above can be made into the hypothesis: Maximum reflex efficiency is achieved after eight hours of sleep.
What is a null hypothesis?	A null hypothesis (abbreviated H <sub>0</sub> ) is a hypothesis to be disproved. The hypothesis above can be turned into a working null hypothesis simply by adding "not". <i>Maximum reflex efficiency is not achieved after eight hours of sleep</i> . Another null hypothesis is: <i>Sleep does not have an effect on reflexes</i> .

**The Research Question and Hypothesis** 

	<ul> <li>Null hypotheses are used in the sciences. In the scientific method, a null hypothesis is formulated, and then a scientific investigation is conducted to try to disprove the null hypothesis. If it can be disproved, another null hypothesis is constructed and the process is repeated.</li> <li>As an example, we might begin with the null hypothesis:</li> <li>Sleep does not affect reflexes.</li> <li>If we can disprove this, we find that sleep does have an effect. We might then go to the next null hypothesis:</li> <li>Different amounts of sleep have the same effect on reflexes.</li> <li>If we can disprove this, we can go to:</li> <li>Maximum reflex efficiency is not achieved after eight hours of sleep.</li> <li>And so on. At each stage in the investigation, we conduct experiments designed to try to disprove the hull hypothesis.</li> </ul>
What is the	A generalized form of the final hypothesis (not the null hypothesis) can be
relationship	used as a thesis statement. For example, if our final proved hypothesis is:
between the null	<i>Maximum reflex efficiency is achieved after eight hours of sleep</i>
hypothesis and	we might generalize this to a thesis statement such as:
the thesis	<i>This investigation demonstrated that sleep has an effect on reflex efficiency</i>
statement of a	<i>and that, in fact, maximum reflex efficiency is achieved after a specific period</i>
research report?	<i>of sleep</i> .