Group task - conduct an experimental study and write a research paper, autumn 2020

Formulate a question for inquiry that relates to cognitive psychology

- -Read the book, have a look at the chapters in the book to get inspiration for your study.
- -An example of a question for inquiry could be "does the use of the PQ4R-technique facilitate learning of text? With facilitation of learning we mean...." (operationalizing the concept of learning).

Plan for and conduct an experiment

- -Relate to theory (Anderson and other additional sources you find on your own)
- -Think closely about what will count as dependent and independent variables, i.e. which variables you want/need to manipulate to see if these have an impact on the dependent variable. Also, what will count as control variables and what variables you cannot control
- -Explicate your hypotheses
- -Explicate/account for how you need to design the experiment to answer the research question
- -Plan the procedure for the experiment (what do I/we have to do, what do the subjects have to do, in what order, how long will it take to conduct the experiment, etc.)
- -Account for research ethical issues and how you plan to handle these

In your planning and writing of the research plan, make a detailed plan of what group members will do.

Similarly, in the final report account for how group members have contributed to the group work; carrying out of the study, analysis of collected data and writing of the final report.

Presentation of work in class during a seminar

-Each group will present and critique/discuss the group work of another group during a final seminar. All group members need to actively take part in this. All present at the final seminar will discuss aspects related to the work conducted including theory, methodology/design, procedure and results. More detailed information regarding this will be posted in iLearn before the final seminars.

Written presentation of work

Each group writes a report on approximately 6-8 pages. The following aspects shall be treated in the report;

- -A short summary of theoretical outline and references to studies found in the literature, the research question and hypotheses
- -Account for the research design you applied, why this particular research design and how you applied it
- -Account for the variables that have been manipulated and kept under control, also account for the variables you have not been able to control (possible sources for error)

- Account for research ethical issues and how you have handled these
- -Account for the results from the experiment
- -Discuss the results from your study as related to the theoretical outline. Be critical, criticize you own work and suggest possible improvements (planning, procedure, variables, etc.)

The report is preferably written based on the following sections;

- -Abstract (a short summary of the report)
- -An introduction/background (here you shall account for the theoretical outline, from where did you get your inspiration and why?, this section should boil down to the research question and the hypotheses)
- -Methodology (here you shall account for the research design, subjects, procedure, material used, variables, ethical issues, etc...)
- -Results (here the results are presented in a comprehensive way)
- -Discussion (as indicated in the section "Written presentation of work" above)

Of course, you are allowed to add to this general outline of the paper with headings and subheadings of your own. Important is that the above-mentioned parts are accounted for in the research paper.