

COMP 20090: Introduction to Cognitive Science.

Study Sheet: Reasoning

What is the structure of a syllogism?

Distinguish between inductive and deductive reasoning. Which is used in Science? Which in Mathematics? Provide examples.

What is the confirmation bias. Provide rich examples. How does the confirmation bias lead to the entrenchment of stereotypes?

How does Wason's experiment show the confirmation bias at work?

Know and give worked examples of Modus Ponens, Modus Tollens, affirmation of the consequent and denial of the antecedent

Show with an example how contextual information can influence reasoning.