

Vocabulary of SL (Sentential Logic)

- Sentences (sentence letters)
 - Can have subscripts if more are needed
- Truth-Functional Connectives
 - Conjunction
 - Disjunction
 - Conditional
 - Negation
 - Biconditional

Truth value of resulting sentence is entirely dependant on input values and Truth Table of connective
- Punctuation (,)

Grammar of SL

* P is just a placeholder for any sentence, atomic or molecular

- Every sentence letter is a sentence
- If P is a sentence, so is $\sim P$.
- If P and Q are sentences, then $P \& Q$, $P \vee Q$, $P \supset Q$, and $P \equiv Q$ are all sentences.
- Nothing is a sentence unless it can be reduced to atomic sentences according to these rules.