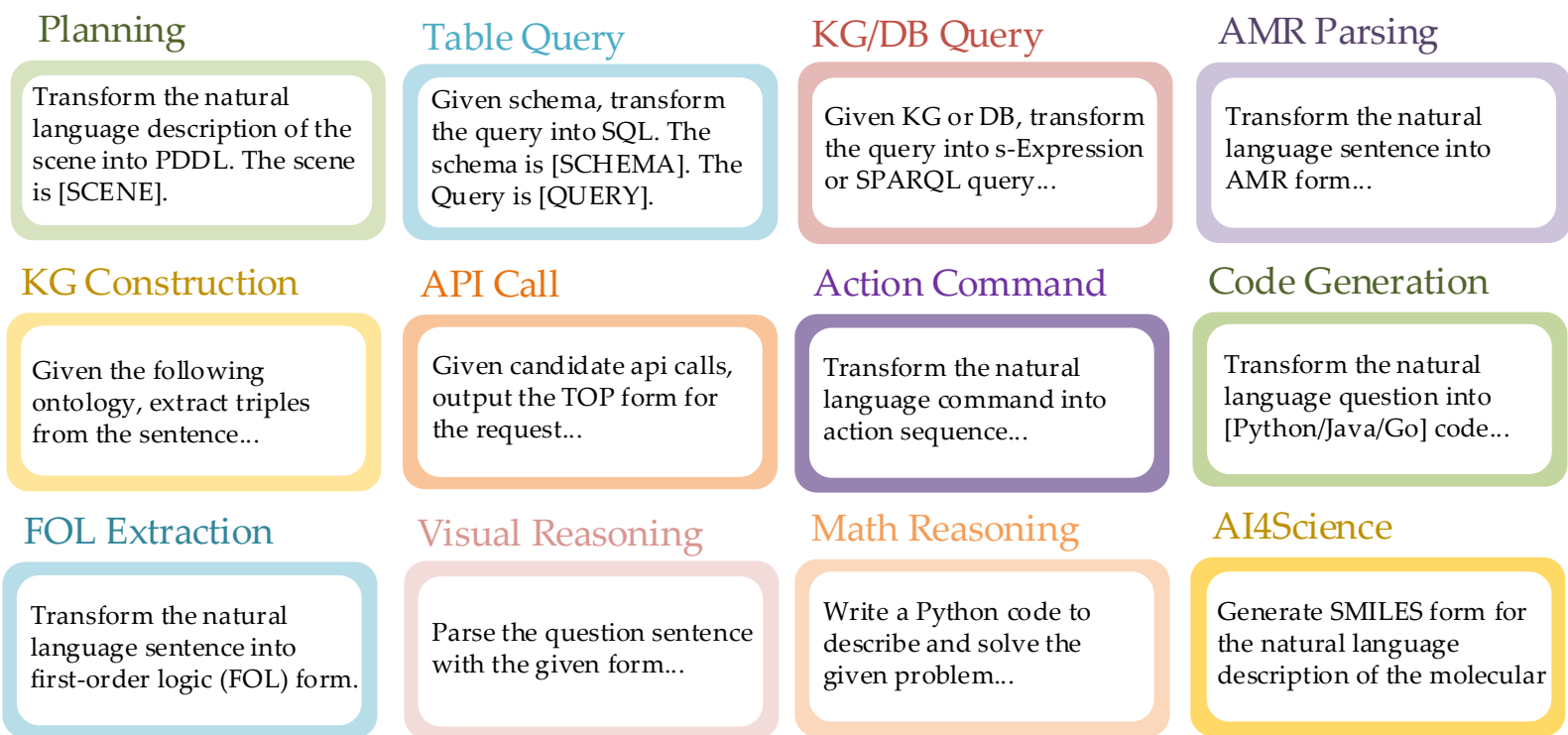


Injection Stage

Text Input (~880K samples)



Symbol-LLM (Base)

MLE Loss

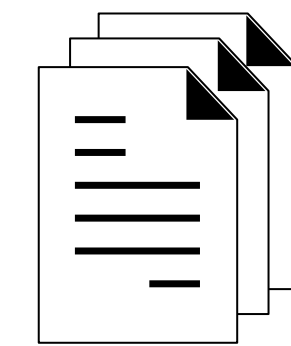
Symbolic Output



Infusion Stage

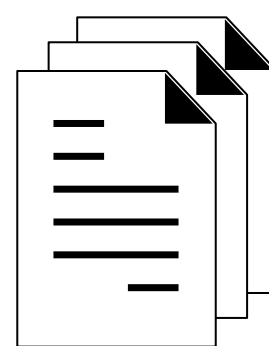
Random Sampling

Symbolic



~260K samples

General



-Flan
-CodeAlpaca
-WizardEvol

~310K samples



Symbol-LLM (Instruct)

Params Initialize

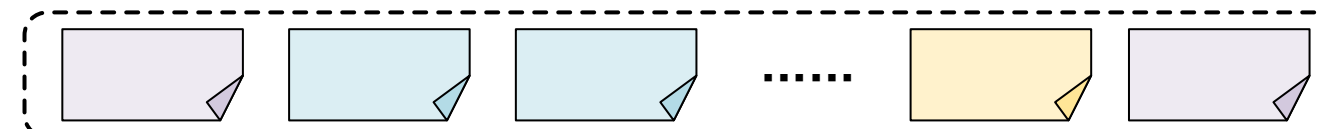
MLE Loss

Symbolic Output

NL Output

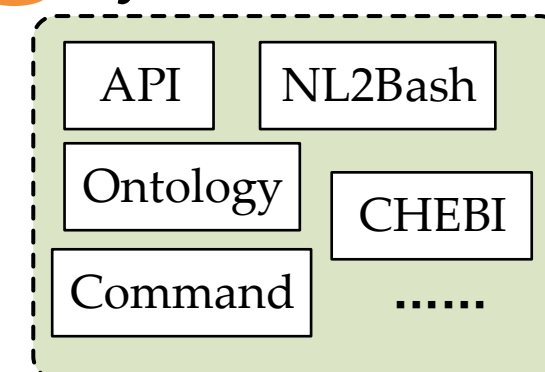
(a) Tuning Phase

Test Tasks (In-domain + OOD)

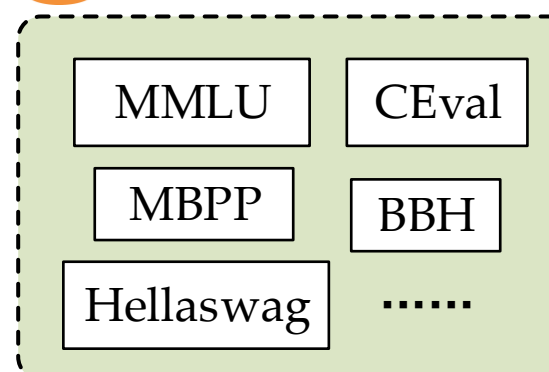


Symbol-LLM

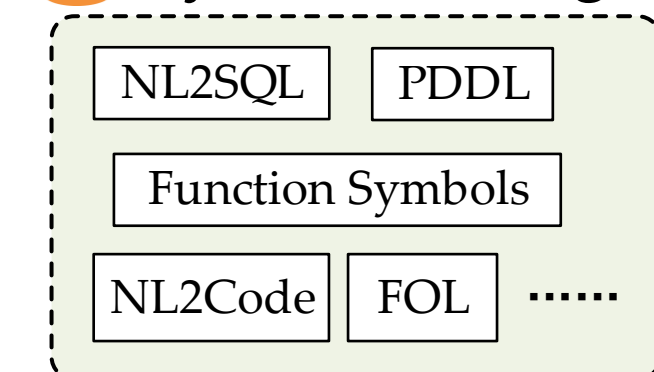
1 Symbolic Tasks



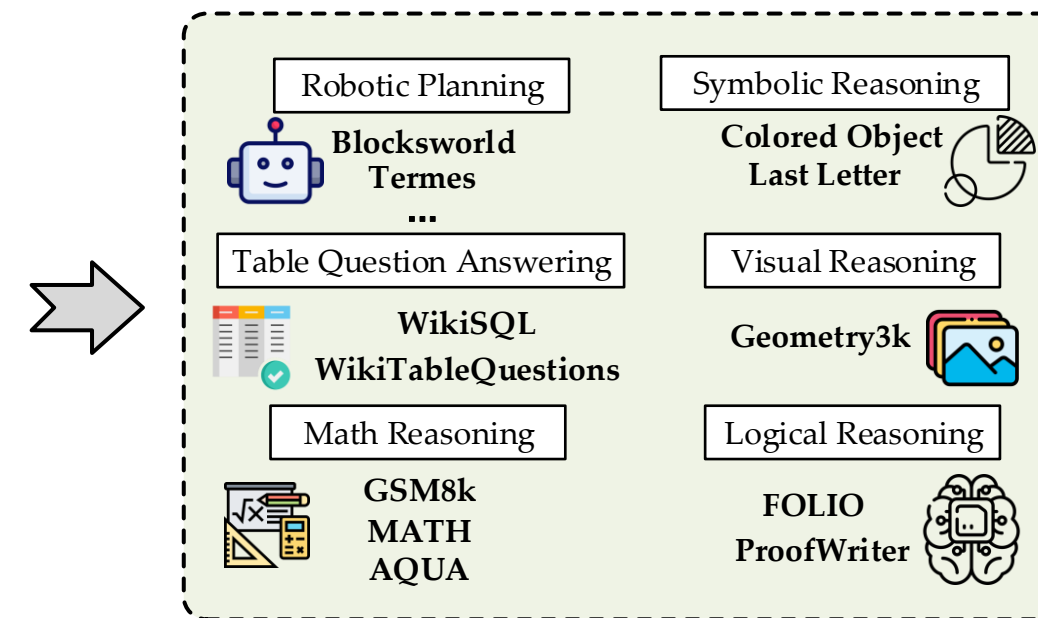
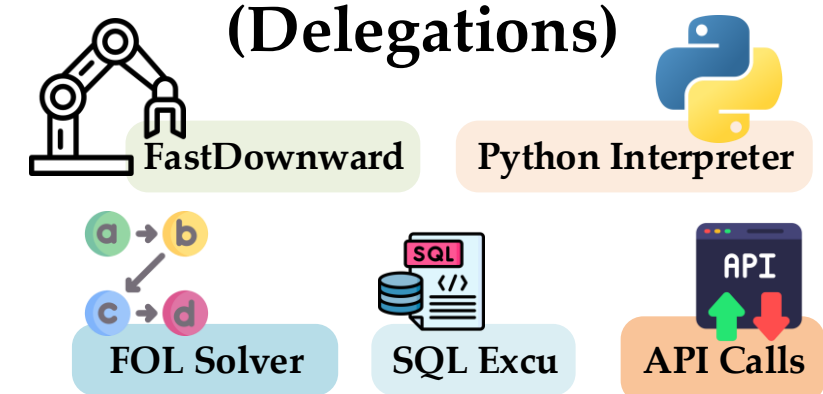
2 General Tasks



3 Symbol + Delegation



Symbolic Solver (Delegations)



(b) Test Phase