MMLU College Physics $\log p_{\theta}^{\mathsf{Vocab}}(\mathsf{Correct\ Choice})$ Correlation: spearman Correlation: pearson Correlation: kendall —— Pythia 12B Param. (Data Scaling) 0.80.21.00 -1.001.00 1.00 -1.000.00Correlation Between FLOPs and Scores (Per Sample) Correlation Between FLOPs and Scores (Per Sample) Correlation Between FLOPs and Scores (Per Sample)



— INCITE 7B Param. (Data Scaling)

LLM360 Amber 7B Tokens (Param Scaling)

— OLMo 7B Param. (Data Scaling)

—— Pythia 300B Tokens (Param. Scaling)