Bloom's Levels

E.g. Which tissue sample appears healthier betweeen the two images?

5 - Evaluation

E.g. Which experiment would confirm the localization of the target protein to motile cilia in ependymal cells?

3 - Application

E.g. In the image, two cells are connected by a red-colored structure. What is this structure called?

4 - Analysis

2 - Comprehension

1 - Recall

Question Distribution of Bloom's Levels Across Benchmarks

Research

MicroVQA: 2.9 | 8.3 | 48.2 | 32.1 | 8.5

MMSci: 2.5 | 87.0 | 9.2 | 1.0 | 0.3

LabBench: 41.4 | 24.3 | 24.3 | 8.8 | 1.1

Graduate

PathVQA: 71.1 | 23.9 | 3.3 | 1.2 | 0.5

OmniMed VQA: 71.9 | 23.4 | 2.4 | 1.8 | 0.5

MicroBench (Perception): 48.4 | 51.6 | 0.0

Undergrad.

MMMU-Pro: 21.3 | 26.5 | 45.5 | 5.9 | 0.8

MMMU: 32.9 | 45.8 | 14.9 | 6.0 | 0.4

Grade-school

ScienceQA: 44.3 | 40.9 | 9.7 | 4.6 | 0.5

Proportion of dataset (%)