

# Curiosity: A Phase Diagram Is a Map of Conditions

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A phase diagram is a compact map: each region tells what phase a model assigns at a chosen temperature and pressure. Its value comes from making conditions visible. It cannot choose a procedure, estimate a rate, or replace information about a real sample.

The same map-reading habit helps with materials tables. A label can suggest a model, but comparisons become stronger only when conditions and alternative explanations are included.