Model Consistency with Data

Today's Standard

HSS.IC.A2 - Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation. For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?

Cues	Notes
Model consistency	Evaluate if a model aligns with observed data.
Simulation	Use simulations to test model predictions.
Probability	Understand probability distributions and expected outcomes.
Data analysis	Analyze data to validate models.
Expected outcome	Recognize short-term deviations and long-term trends.

Summary

This standard teaches students how to evaluate the consistency of a model with observed data, using simulations and understanding probability distributions to make informed decisions.