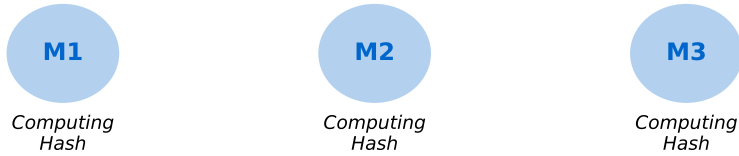


Consensus Mechanisms Comparison

Proof of Work (PoW)

Proof of Stake (PoS)

Mining Process



Computational Power

First to find valid nonce wins

- Energy intensive
- Hardware competition
- 51% attack risk
- Proven security

Staking Process



Random Selection
(weighted by stake)

Selected validator proposes block

- Energy efficient
- Stake-based selection
- Economic penalties
- Lower barriers to entry