# Performance Evaluation Rubric for GenScaleSim Simulations

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| Component | Advanced | Competent | Basic |
| Biological theory | - Evaluation of realistic molar- and rate-based yields  - Evaluation of realism of metabolite compartments in model reactions | - Calculation of molar- and rate-based yields  - Extraction of metabolite and reaction dimensions from the stoichiometric matrix | - Knowledge of the relationship between product yield and growth rate  - Knowledge that exchange reactions are unbalanced |
| Programming | - Understanding the necessity to solve genome scale models with linear optimization and constraints  - Identifying the meaning and content of variables | - Evaluation of composition of biomass equation  - Identifying variable context and correct association of labels | - Knowledge which model components are optimized as objective function  - Retrieval of file output from code |
| Teamwork | - Active group discussions with continuous mutual support | - Mostly individual working with regular mutual support | - Individual work, rare interactions of group mates |