

Outcome Master for Fortune Cookies

Black = Past and Current BI 10x Student Learning Outcomes

Red = Workshop Participant Learning Outcomes

Students will provide examples of theories and laws in science.

Students will identify and utilize common forms of verbal and visual scientific language.

Students will find and explain science in the news.

Students will provide examples of science encountered in daily life.

Students will provide examples of science in popular culture.

Students will provide examples of how the world is understandable through evidence.

Students will describe how scientific knowledge changes over time but remains durable.

Students will distinguish between science conceptions and common misconceptions.

Students will utilize different methods of observation.

Students will locate, critique, and organize information from a variety of sources.

Given data, students will analyze and synthesize the information.

Students will utilize technologies to extend and explore perception.

Students will use science methodologies to address research problems.

Students will relate stories about historical examples of discovery and experimentation.

Students will use multiple representations such as mathematical equations, charts, figures, and models.

Students will use logical thought to draw conclusions.

Given data, students will explain and predict natural phenomena.

Students will utilize creative thought in novel situations.

Students will produce original and creative work.

Students will provide examples of connections between biology and other fields.

Students will address a problem using knowledge from multiple fields of study.

Students will represent different perspectives of regional and global issues.

Students will identify the sources of ideas used in their decision-making.

Students will study the efficacy of their study skills and strategies.

Students will use a variety of self-assessment and reflection techniques.

Students will describe the importance of ethics, reduction of bias, and peer review in science.

Students will describe the societal, cultural, institutional, and personal contexts that scientists work within.

Students will provide examples of the lives and work of specific scientists.

Students will describe the impact of citizenry and governments on the scientific endeavor.

Students will communicate clearly and persuasively about science issues using multiple media.

Students will critically evaluate empirical evidence and theoretical claims.

Students will consider multiple and possibly divergent solutions to a problem.

Students will map their current understandings of a topic.

Students will study using varied techniques.

Students will produce professional quality writing.

Workshop participants will list characteristics of student learning outcomes.

Workshop participants will generate a new student learning outcome.

Workshop participants will generate an assessment that matches an outcome.

Workshop participants will plan an outcome activity to use beyond the workshop.

Workshop participants will explain how learning outcomes can be linked to student activities.

Workshop participants will break a general outcome into sub-outcomes (objectives).