MODEL THIS! – This event integrates a computational modeling using a personal computer (PC), the Internet, and quantitative data analysis that requires students to use scientific reasoning and critical thinking to develop their understanding of science. Teams are presented with a problem that requires modifying existing computer model parameters, interpreting its graphical output, modifying its computer code, and using the models to answer a series of questions requiring short answers.

M.A.1.c-h A. Science as Inquiry - Science as inquiry requires students to combine processes and scientific knowledge with scientific reasoning and critical thinking to develop their understanding of science.

M.A.1 Abilities necessary to do scientific inquiry:

c. Use appropriate tools and techniques to gather, analyze, and interpret data.
d. Develop descriptions, explanations, predictions, and models using evidence.
e. Think critically and logically to make the relationships between evidence and explanations.
f. Recognize and analyze alternative explanations and predictions.
g. Communicate scientific procedures and explanations.
h. Use mathematics in all aspects of scientific inquiry.