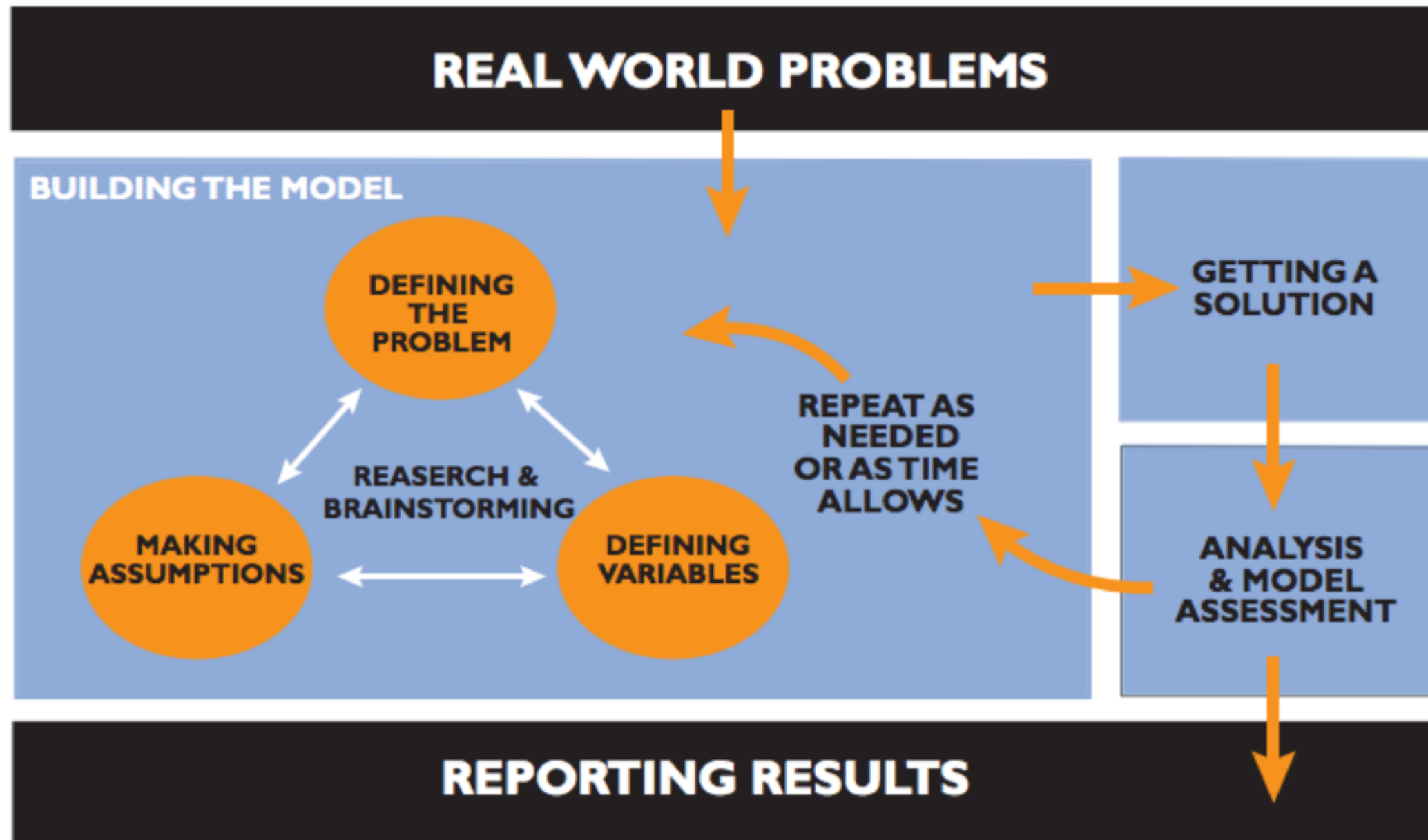


# Math Modeling Process



# Grading scheme

| Skill \ Letter Grade                                                            | F                                          | C or D                                                                                                                                                                                                            | A or B                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identify factors or variables and justify why they were important for the model | Did not identify a set of relevant factors | Identified at least some key factors but did not make strong justifications for how the variables in the model related to the real world problem                                                                  | Identified a good (even if not perfectly complete) set of factors and drew a clear connection between these factors and the real world                                                                                            |
| Validation of the model                                                         | Did not validate the model in any way      | Performed at least one calculation in an effort to validate the model but did not discuss how their calculated answer related back to the real world, thereby justifying the model's applicability to the problem | Performed a sufficient set of validation calculations and connected the mathematical results to the real work in order to demonstrate that the model was valid and useful to gain additional insights into the real world problem |