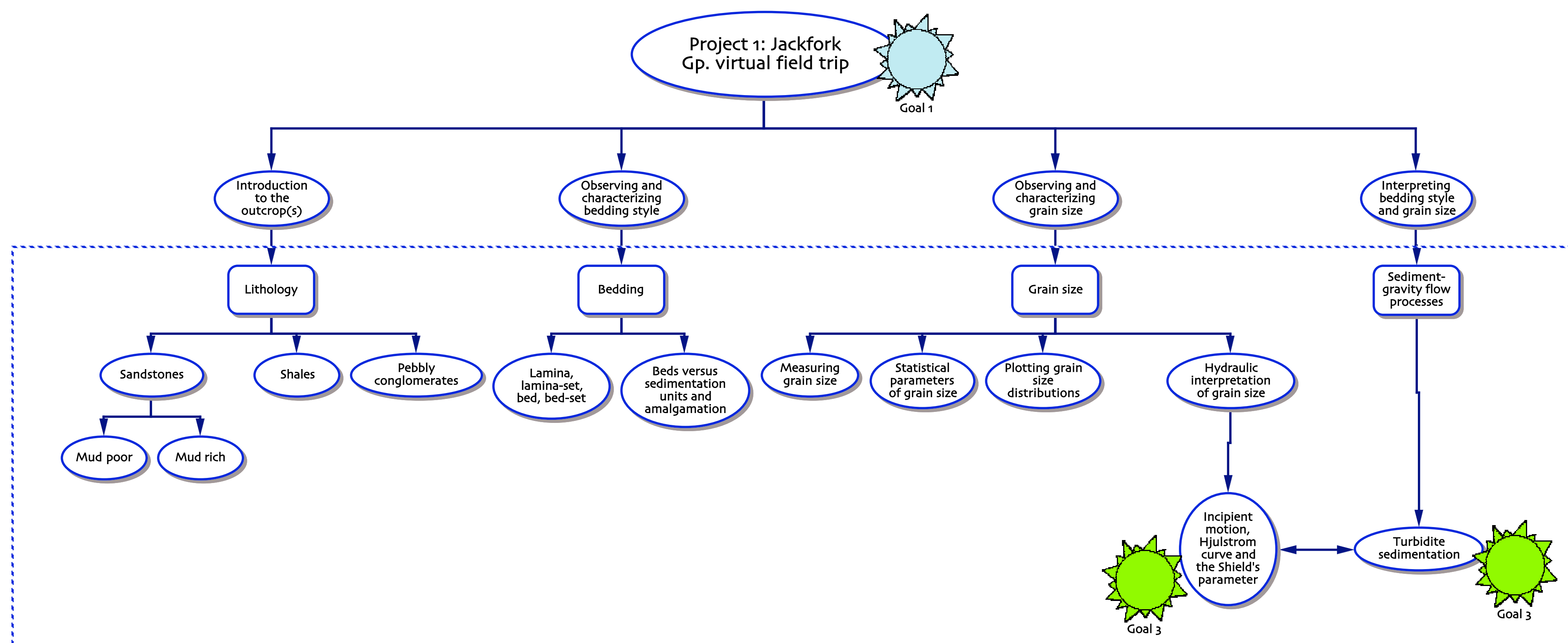


Sedimentology and Stratigraphy

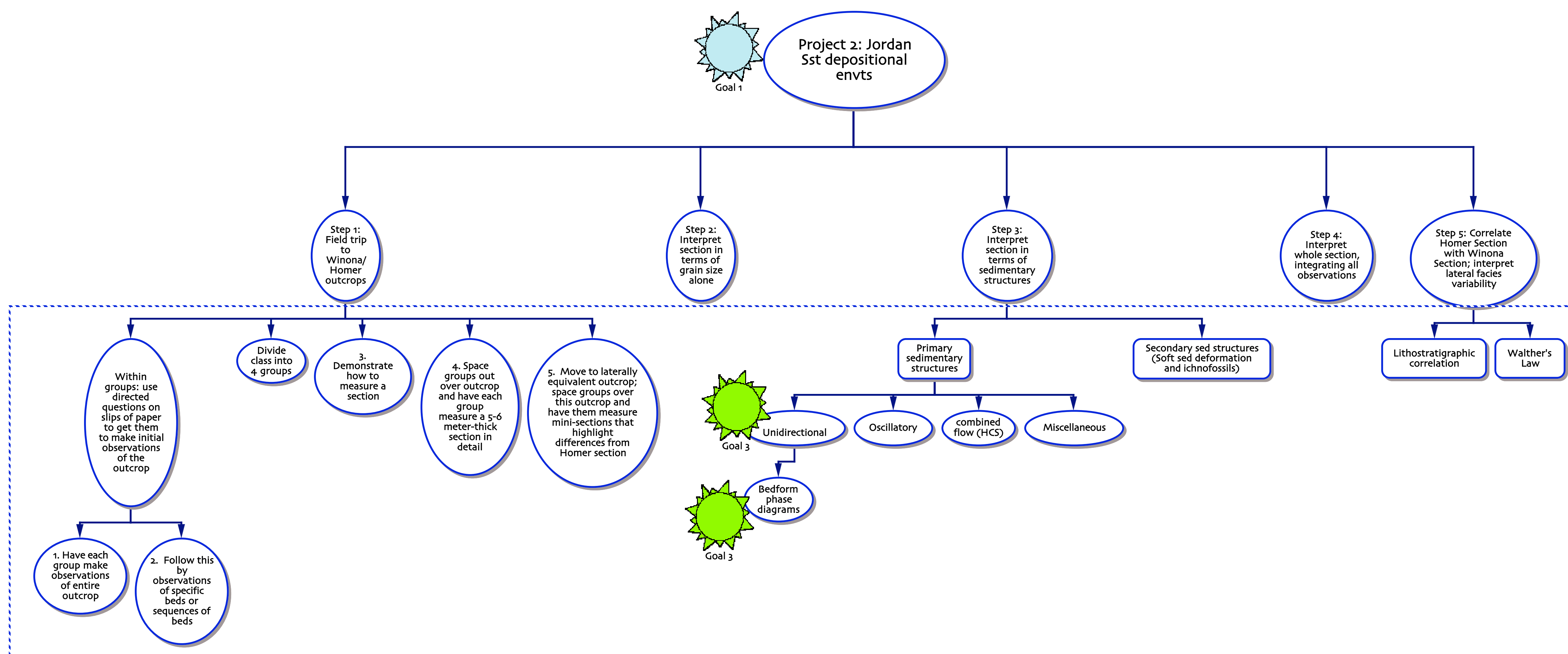
Overarching goal 1: Given an outcrop, 1D/2D section, correlation diagram, or other representation of a stratigraphic section, interpret the depositional history of the sequence and develop an internally consistent hypothesis about the relative importance of sediment supply, subsidence, and/or base level in creating the sequence.

Overarching goal 2: Given a tectonic setting, predict what types of sedimentary processes and depositional environments would result and what their stratigraphic signature would be.

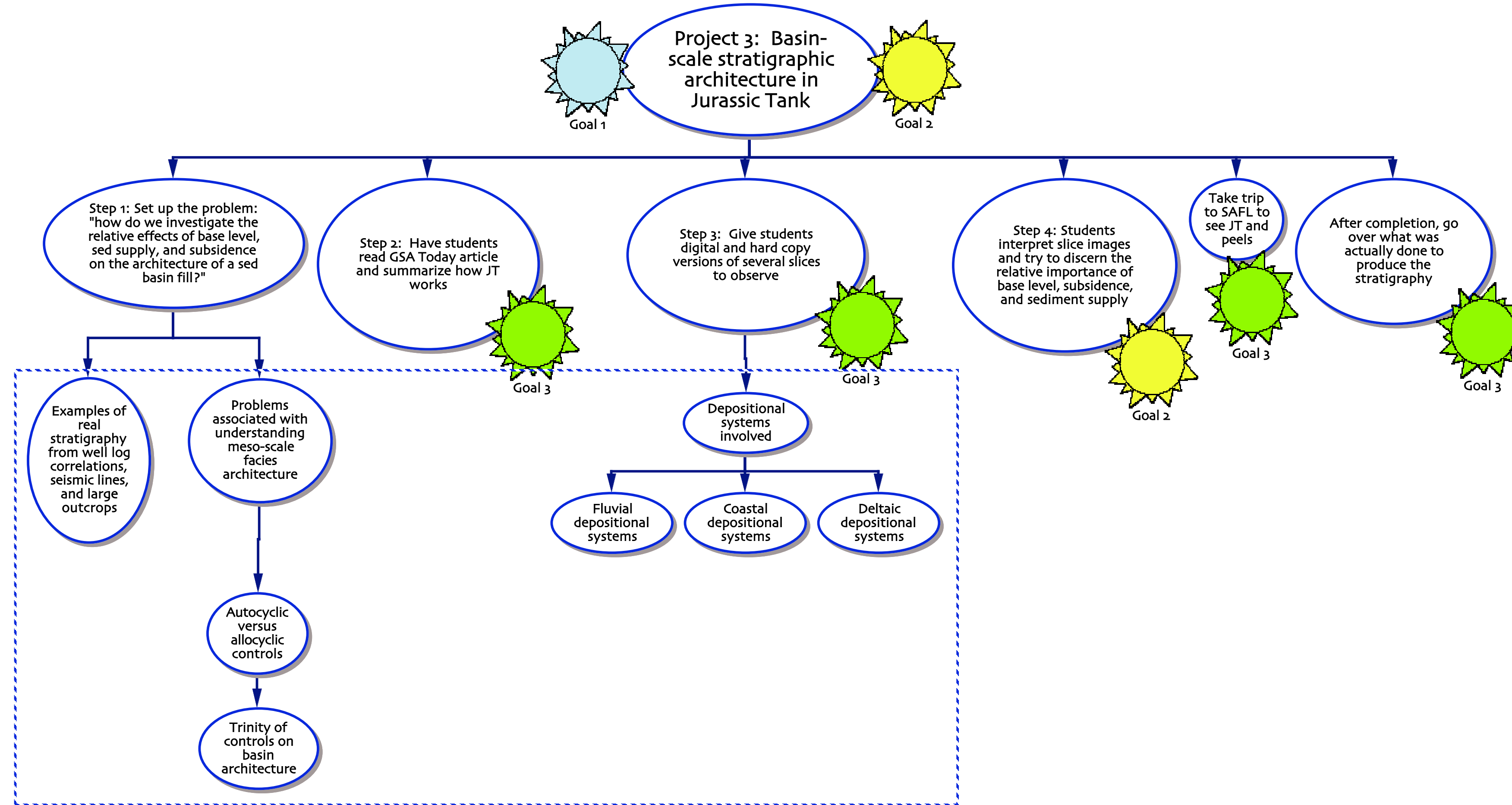
Overarching goal 3: [Design, carry out, and] analyze an experiment that focuses on a sedimentary process.



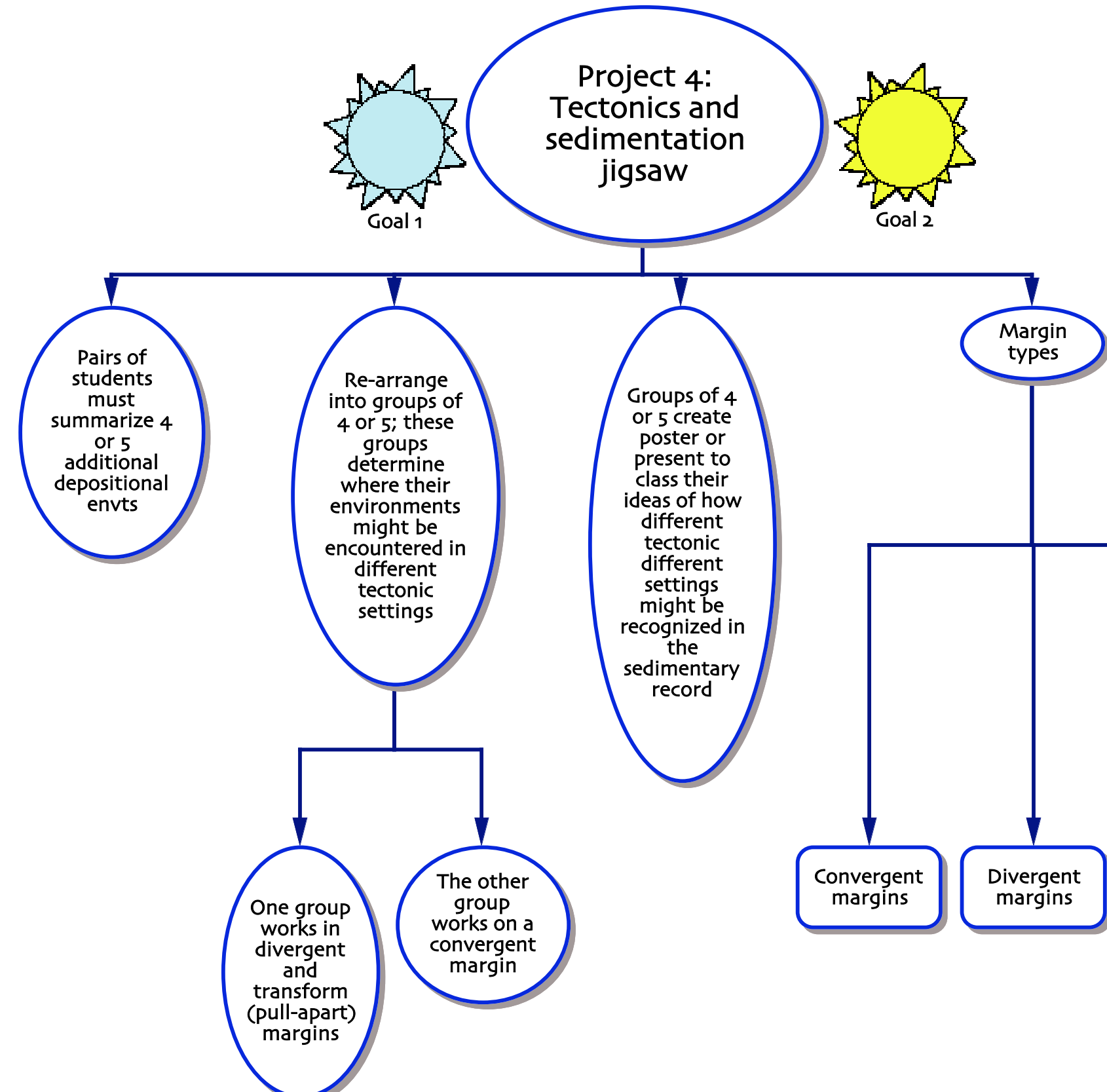
Interpreting a sequence of strata based on lithology, bedding geometry, and grain size only



Interpreting a sequence of strata using techniques from the first project, but adding sedimentary structures and 2D correlation to the mix



Interpreting a sequence of strata using techniques from the first two projects, but zooming out to the basin scale (bringing in the combined roles of base level, tectonic subsidence, and sediment supply)



Using sedimentary strata to interpret tectonic processes and settings.