Teaching Science as Inquiry (TSI) Modes of Inquiry

Inquiry Modes			Description
Nouns *(Inquiry learning through use of _____)*	**Adjectives** *(_____ inquiring)*	**Verbs** *(I am inquiring by_____)*	Search for new knowledge…
Curiosity	***Curious***	***Being curious***	in external environments through informal or spontaneous probes into the unknown or predictable
Description	***Descriptive***	***Describing something***	through creation of accurate and adequate representation of things or events
Authoritative knowledge	***Authoritative***	***Learning from others***	through discovery and evaluation of established knowledge via artifacts or expert testimony
Experimentation	***Experimental***	***Experimenting***	through testing predictions derived from hypotheses
Product Evaluation	***Evaluative***	***Evaluating products***	about the capacity of products of technology to meet valuing criteria
Technology	***Technological***	***Using technology***	in satisfaction of a need through construction, production and testing of artifacts, systems, and techniques
Replication	***Replicative***	***Repeating my process***	by validating inquiry through duplication; testing the repeatability of something seen or described
Induction	***Inductive***	***Making generalizations***	in data patterns and generalizable relationships in data association – a hypothesis finding process
Deduction	***Deductive***	***Drawing conclusions***	in logical synthesis of ideas and evidence – a hypothesis making process
Transitive knowledge	***Transitive***	***Applying knowledge***	in one field by applying knowledge from another field in a novel way