

Inquiry Lesson Sequence Assignment

Initial Plans

Projected EPE/OPM Table:

Observations or experiences (examples, phenomena, data)	Patterns (laws, generalizations, graphs, tables, categories)	Explanations (models, theories)
<ul style="list-style-type: none"> - Different physical characteristics on themselves, each other, and case studies - Some traits are similar within the same race, family, gender - Some traits are more common than others 	<ul style="list-style-type: none"> - If both their parents exhibit a recessive trait than they the child does too 	<ul style="list-style-type: none"> - Physical characteristics are carried on genes from parent to offspring
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">←</div> <div>Application: Model-based Reasoning</div> <div style="text-align: right;">→</div> </div>		
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">Inquiry: Finding and Explaining Patterns in Experience</div> <div style="text-align: right;">→</div> </div>		

Objectives:

My goal is to teach them to observe physical characteristics and be able to start to place phenotypes (characteristics) with possible genotypes (genes). Be able to make punnett squares and heredity charts from their own observations and case studies.

Initial Plan

Phase 1: Engaging with a problem. In what ways do you look like your parents, and why? Why don't you look like the person next to you? I am going to emphasize more on the second question than the first.

Phase 2: Data or observations. They will collect their data by writing down the observations in their lab book and begin to create charts of similarities. Once they are done with their own observations they will work in pairs to make observations and charts of a case study.

Phase 3: Finding and explaining patterns. If possible: They will have brought in family photos to compare with their own traits. They will use the extended family photos from the case study to compare to their initial case study observations.