Family Secrets

Family Secrets Overview

The Overview charts below provide a chronological listing of the instructional strategies and activities that are found in the 11-lesson sequence of *Family Secrets*. Expanded explanations of these lessons and strategies are found in the Quick Guides and the Coach's Guides.

The strategies and activities shown for each class period represent one possible sequence, based on eleven 40-minute lessons. The Check-Off (or Time) column is for coach's use while planning and conducting these classes.

Other variations and lesson sequence scenarios are possible, depending on local conditions such as classroom schedules, types of students, and the experience of the teacher in using these strategies and coaching PBLs.

PBL Part 1	Class #		Time	Strategy / Activity Name
	Prior			Introduction to PBL
	To			Team Roles
	First			Brainstorming Rules
	Class			PBL Rubrics #1 and #2
A Family Disease	1			Assess Prior Knowledge
A Family Disease				Script Reading: Part 1
				Individual Facts & Questions (F & Q)
			Team Brainstorm (F & Q)	
				Topical Barometer #1
				Homework: Reading on HD

PBL Part 2	Class #	Time	Strategy / Activity Name			
	2		Script Reading: Part 2			
			Individual Facts & Question: Part 2			
			Team Brainstorm (F & Q)			
			Categorizing Questions			
			Round Robin of Questions			
			Optional: HD video clip			
The Dilemma	3		JigSaw #1: Category Specialists research			
The Dilemina			JigSaw #2: Category Specialists report			
			(Round Robin to whole class or "home" team			
			ndividual Facts & Question: Part 2 Feam Brainstorm (F & Q) Categorizing Questions Round Robin of Questions Optional: HD video clip igSaw #1: Category Specialists research igSaw #2: Category Specialists report Round Robin to whole class or "home" team eports) PBL Rubrics (early PBL reflection) #1: Problem Solving #2: Team Processing			
	4		PBL Rubrics (early PBL reflection)			
			#1: Problem Solving			
			#2: Team Processing			
			Homework: Informed Consent			

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PBL Part 3	Class #		Time	Strategy / Activity Name		
	5			Assess Prior Knowledge		
				Half Sheet of 2 Definitions & Reports		
				Rank Ordering Principles, "Top 3" Values, with		
			"real life" student examples of each	"real life" student examples of each		
				Bioethical Dilemma Word Splash Posters		
				Script Reading: Part 3		
	6			Team Quick Brainstorm		
			Intro to Decision-Making Process (DMP)			
A Difficult Choice				Whole Class work: DMP Steps 1-3		
				Team work: DMP Steps 4-6		
				Individual work: DMP Steps 7-8		
		Topical Barometer #2 (with only 2 choices				
				Barometer Conclusions and Conversation		
	7			Either: Discussion of Topical Barometers and/or		
				Step 8 decisions and rationale		
				Or: Practice gel loading		
				Optional: Virtual Lab Part 2		

PBL Part 4	Class #		Time	Strategy / Activity Name
	Pre- Lab "prep"			Prepare quantities of buffer Run off hand-outs Assemble non-"blue box" lab supplies Dispense dyes for each station Prepare gel box station "baggies" Prepare practice gel loading supplies Arrange for computer use for virtual lab
Testing for the HD Gene	8 Steps A-E Gel Set-up	Not	e: Thi	Narrator's introduction reading Gel box assignments A = Agarose preparation B = Electrophoresis apparatus set-up C = Gel pour (and time to set up) D = Practice loading dyes E = Dams & comb removal Gel storage (if not doing lass 9 right away) Clean-up s class time may be eliminated if teacher pours (pre-casts) the gels.

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PBL Part 4 (cont.)	Class #		Time	Strategy / Activity Name
Testing for the HD Gene	9 Steps F-G Gel load and run			Gel replacement from storage F = Load Samples (dry load option) G = Add buffer H = Set up and "run" gel Part 4 script reading I = Observe (and record) results: Electrophoresis Analysis Report diagram J = Clean up Electrophoresis Analysis Report completion Technician's Gene Testing Report completion
Report Writing	No	ote: TI	his class time may be eliminated if reports are assigned for homework	

PBL Part 5	Class #	Time	Strategy / Activity Name		
More Decisions			Script Reading: Part 5		
			ELSI "Future" Posters		
	11	PBL Rubrics (post-PBL reflection)			
	11		Script Reading: Part 5 ELSI "Future" Posters PBL Rubrics (post-PBL reflection) #1: Problem Solving #2: Team Processing		
			Script Reading: Part 5 ELSI "Future" Posters PBL Rubrics (post-PBL reflection) #1: Problem Solving #2: Team Processing		
			Optional: Poster Museum Walk		

		D	Constinu Associament (Darta A. D. and C)
		В	Genetics Assessment (Parts A, B, and C)
		С	Creating Your Own Ending
		D	Researching "Hopes for the Future"
Optional		Ε	Understanding Another Genetic Condition
Alternative Assessments	12+	F	ELSI Speculation
	12+	G	Genetic Literacy Survey
Appendix B - J	Appendix B - J	Τ	Should It Be A Law?
			Testing for "Good" Genes
		_	Societal Concerns Arising from Genetic Testing
		J	and Genetic Technology