

Date of Creation		April 26 2010											
How can educators better create lesson plans that feature hands-on, inquiry-based learning?													
How can educators	Objectives	Assessment of the Objective	Formative	Activities	Teaching	NYS	Seat Time	Online	Synchronous	Precious			
	Objective 1												
	Participants will be able to list the essential questions for this course.	Participants will discuss the purpose of the course. (binary)		After reading the syllabus,		Appendix A: Collects, organizes,	15 minutes						
	Objective 2												
	Participants will be able to access and use the technology necessary for the course.	Participants will log on to Moodle and properly post to a forum (binary)		Participants will log onto moodle.nyit.edu and		Appendix A: Collects, organizes, and	15 minutes					differentiation	Special Resources
	Objective 3												
	Participants will be able to list their responsibilities for the course.	Participants will write a two paragraph reflection on what they are responsible for. (binary)	Based on other student's	Participants will write their		Appendix A: Collects, organizes,	30 minutes						
Week #2	Objectives	Assessment of the Objective	Formative assessment	Activities	Teaching Strategies	NYS Performance Indicators	Seat Time total	Online Time	Synchronous time	Precious Attributes			
	Objective 1												
	Participants will be able to list the basic parts of the brain and the functions of these parts.	Participants will list the four lobes of the brain and their functions in discussion.		Brain Dissection		Living Environment Process Skill	30 minutes						
	Objective 2												
	Participants will be able to create one hands-on lesson plan to introduce students to the brain.	Lesson plans must include objectives and standards addressed, be detailed enough to replicate, be scientifically	Participants will comment on	Brain Hats		Health Standard 1 Key Idea 1	30 minutes						

	Objective 3										
	Participants will be able to identify the basic parts of a neuron.	Participants will create a representation of a neuron that includes the soma, dendrites, axon,	Participants will comment on	Neuron models using pipe		Standard 4 Key Idea 1 Indicator	15 minutes				
	Objective 4										
Week #3	Objectives	Assessment of the Objective	Formative assessment	Activities	Teaching Strategies	NYS Performance Indicators	Seat Time total	Online Time	Synchronous time	Precious Attributes	
	Objective 1										
	Participants will be able to model how the brain process visual information.	Students will create an accurate visual or kinesthetic model of visual processing that includes the eyes,	Participants will comment on	Participants will read an article about		Standard 1 Key Idea 1 Indicator 1.1	1 hour-reading 1hour-				
	Objective 2										
	Participants will be able to identify multiple activities that hilight the brain's role in visual processing.	Participants will discuss different ways in which we use vision and how the brain is involved in these		Optical Illusions discussion		Standard 6 Key Idea 1 Indicator 2	30 minutes				
	Objective 3										
	Participants will be able to describe at least two brain disorders that affect vision.	Participants will watch videos about two disorders and write two paragraphs about each disorder that		Participants will watch the		Standard 1 Key Idea 2 Indicator	30 minutes				
	Objective 4										
	Participants will participate in a real neuroscience study.	Participant completes an online experiment and posts the explanation of their score they receive upon	Participant writes a brief (5	Participants will choose a study on		Standard 1 Key Idea 1 Indicator 1.1	15 minutes				

Week #5												
Objectives	Assessment of the Objective	Formative assessment	Activities	Teaching Strategies	NYS Performance Indicators	Seat Time total	Online Time	Synchronous time	Precious Attributes			
Objective 1												
Participants will identify how different types of addictive substances affect the brain.	Participants will discuss addiction and its effects. (binary)		Participants will play a matching		Health Standard 1 Key Idea 1	30 minutes						
Objective 2												
Participants will create a hands-on activity that informs students about how proper nutrition influences the	Participants will create an activity that includes a discussion of what foods student should eat for proper	Participants will comment on	Brain plate activity- participants		Health Standard 1 Key Idea 1	45 minutes						
Objective 3												
Participants will identify resources that can be used to learn about the brain and strategies for teaching	Participants will locate and post at least two online resources and give a brief (2 sentence) description of each		Participants will search for and		Standard 1 Key Idea 2 Indicator 2.2	1 hour						
Objectives	Assessment of the Objective	Formative assessment	Activities	Teaching Strategies	NYS Performance Indicators	Seat Time total	Online Time	Synchronous time	Precious Attributes			
Objective 1												
Participants will synthesize the course information into a lesson that can be used in the classroom.	Lesson must include objectives, standards addressed, enough detail for replication, and be hands-on		Participants will create a lesson plan		Standard 1 Key Idea 1 Indicator	1 hour- course reflection						
Objective 2												
Week # 6												

