Field Trip # 10	Advanced Object Oriented Programming with ALICE
Developed by:	Dr. Debra Chapman
Subject:	Object Oriented Programming
Short description:	Students will learn about advanced Object Oriented programming concepts,
	including method scope & interactivity through events using the ALICE programming
	software. (Students should have completed the Beginning OOP with ALICE learning
	object)
Educational Level:	6 th – 8 th Grade
Field trip type:	Workshop
Educational	The Student will be able to:
Outcomes:	Create an interactive object oriented Alice environment using events
	Differentiate between local & global scope (methods & events)
	Use camera cuts
	Add 3-D text for additional effects
Content:	
Notes to instructor:	It is recommended that the instructor have at least one assistant in the lab to assist
	learners with the programming. This learning object can easily be fit into a 50
	minute time frame or expanded as time allows. The instructor can cover as much
	material as time permits & allow students to create their own ALICE projects. This
	activity should be done in a computer lab or a classroom with laptop computers. The
	instructor should have a computer connected to an overhead projector for
	demonstration. A started file (similar to what is created in the Beginning OOP with
	ALICE learning object) containing objects, methods & events is needed to save time.
	A PowerPoint instructional slide show can be provided.
LESSON PLAN for	Part 1 (10 minutes: 10)
Advanced ALICE	Review ALICE environment
Session	Open provided ALICE started file (containing objects, methods & events)
	Part 2 (10 minutes: 20)
	Discuss Method Scope – Local & Global
	Create Local Methods
	Create Global (World) Methods
	Part 3 (10 minutes: 30)
	Add User Events - Create interactivity between user & program
	Part 4 (10 minutes: 40)
	Discuss use of multiple views / Cameras
	Set up camera views – use camera views within storylines
	Part 5 (5 minutes: 45)
	Discuss 3-D text for additional effects
	Modify properties & methods of text
	Part 6 (10 minutes: 55)
	Explore with Alice
	Modify their Alice Activity on their own