Development of a Curriculum

- 1. Need to pick an age group
- 2. I have picked Puppets as the Media for the learning. What are your thoughts?

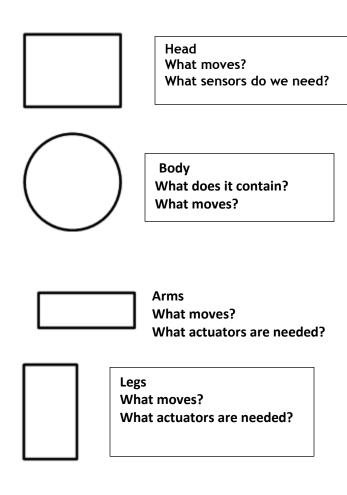
Item	Discussion
Basic Art	Puppets
	Paper mashie
	Cloth
	 Drawing/ Sketches
Software	Simple language to define the operation of what
	movements the puppet will do.
	 Specific software type?
	How does it get into the controller?
	 How does it make the controller do something
Technology	Electronics
	 Circuitry
	 Controllers
	 Sensors, Actuators
	 DesignProblem solving, Thinking Skills
	Science
	○ Life
	Physics
Project Choices	Face Sensors
	Arms, Legs Actuators
	 Sound Generation, Receiving
	• ?????

Doing a Puppet Project:

- · General learning and attitude
- Science Elements
- · Components of the circuitry, Software, Controller
- Picking a project
- Engineering Design
- Tinkering
- · Reflecting and Sharing
- Presenting

Combination of creating a Make work station for incorporating Adineo , Raspberry Pi microprocessors and software with creating the art form of puppets. Hope to do the following:

- Creating paper Masha figures and the design of the joints for the limbs
- Adding sensors and actuators for movement of the puppet
- Learning the software to control the movement.



- The Puppet will be either or both in a structure or free standing held by a person
- It will contain mechanical items
 Simple Machines, Cams, Gears
 Design challenges Science
 Lever (lift heavy objects
 Wheel and Axle (turn objects)
 Pulley (lift heavy objects)
 Incline Plane (lift, split, move)
 Complex machines
- The system will have a microprocessor to control the sensors and actuators for the movement of the puppet.