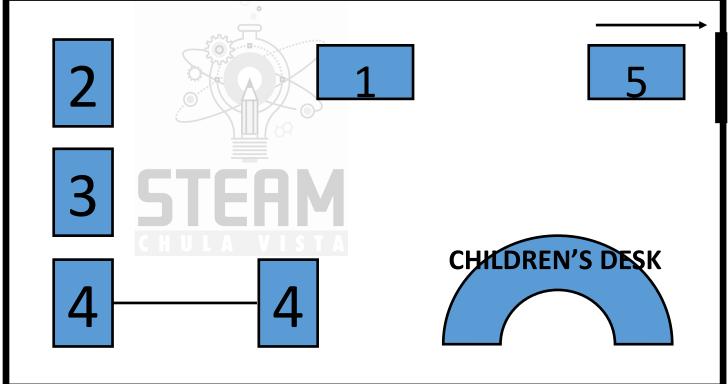
BOTTLE ROCKETS - 8/16/17 @ 4:30 CIVIC LIBRARY



SCHEDULE OF EVENT:	
4:00pm:	VOLUNTEER CHECK IN/ SET UP
4:30-4:45:	INTRODUCTION
4:45-4:50:	VIDEO AND Q&A
4:50-5:45:	STATION 2,3,4 OPEN
5:20:	LAST CALL STATION 2
5:25:	STATION 2 CLOSED
5:40:	LAST CALL STATION 3&4
5:45:	STATION 3&4 CLOSE
	BEGIN INSIDE CLEAN UP
5:45:	ALL PATRONS MOVE TO
	STATION 5, ROCKET LAUNCH
5:45-6PM:	ROCKET LAUNCH IN PARK

STATIONS:

- 1 = INTRODUCTION AND VIDEO
- 2 = BOTTLE ROCKET ASSEMBLY
- 3 = ROCKET LAUNCH

SIMULATION (COMPUTER)

- 4 = BALLOON ON STRING ROCKET RACE
- 5 = BOTTLE ROCKET LAUNCH

QUESTIONS?

Jean L. Picard (STEM librarian) 555-555-5555 space@finalfrontier.com

PROGRAM DESCRIPTION

1. Introduction a. Mr. David and Ms. Joanna b. Volunteers Ms. Sophia and Ms. Ellen 2. Topic introduction a. What is S.T.E.A.M? b. What is a rocket? Why is it so hard to get objects into space? i. Tyranny of the Rocket https://www.nasa.gov/mission_pages/station/expedi tions/expedition30/trvannv.html c. Description of stations i. Bottle rockets-design bottle rocket fins and nose cone for launching in park. (http://www.sciencesparks.com/2012/03/12/making-a-bottle-rocket/) ii. Computer simulation-try and design a rocket to get into orbit on computer simulation. (Kerbal Space Program) iii. Balloon race-shoot a balloon down a string to learn about thrust. (https://sciencebob.com/makea-balloon-rocket/) d. Introduction of videos Videos a. https://www.voutube.com/watch?v=C1TuxJRszVo (Nat Geo -How rockets work) b. <u>https://www.voutube.com/watch?v=g0IONxf70gs</u> (NASA -How does NASA launch a rocket?) 4. Questions on videos 5. Break up tables to start stations a. Left tables - bottle rocket construction b. Right tables - computer simulation c. Center tables - balloon race i. After patrons complete starting activity, move to different station Close bottle rocket construction 7. Close computer simulation and balloon race 8. Launching in park