

PROJECT #1 PROPOSAL

**Name(s): Nathan D and Ajay P**

**Project: 3D Printing a Musical Instrument**

**Part A: Brainstorming...**

* **describe your project idea(s)**

**The proposal we plan to submit entails the creating of a musical instrument (preferably a ukulele) using the 3-D Printer.**

* **List your learning objectives**

**-Learn how to use 3-D Printing software with confidence and understanding.**

* **State the goal(s) of your project**

**-To achieve a level of understanding surrounding 3-D printing that can allow us to excel in future use of the technology.**

**Part B: Electronic Resources**

[**http://www.instructables.com/id/3D-Printed-Ukulele-Fully-Playable/**](http://www.instructables.com/id/3D-Printed-Ukulele-Fully-Playable/)

**Part C: Planning…**

* **Materials list**
* Access to a 3D printer with a build volume of at least 7 inches by 3 inches and a 6 inch height
* ½ kg of ABS or PLA filament
* Standard Guitar Tuners - [example link](http://www.amazon.com/Chrome-Guitar-String-Tuning-Machine/dp/B00BJTGILG/ref=sr_1_6?s=musical-instruments&ie=UTF8&qid=1428766476&sr=1-6&keywords=guitar+tuners)
* Soprano Ukulele Strings - [example link](http://www.amazon.com/Hawaiian-Ukulele-Black-Nylon-Strings/dp/B001ISZBFC/ref=sr_1_6?s=musical-instruments&ie=UTF8&qid=1428765745&sr=1-6&keywords=ukulele+strings+soprano)
* **Designs…**

**Videos of the 3-D printing process of the ukulele are shown on the instructables website (link is in the Electronic Resources section).**