

# Science Olympiad 2019-2020 Season Sounds of Music Checklist / Data Sheet

Version 1.2

## Event and Construction Requirements

- 1. Competitors construct only 1 device
- 2.a. Reference materials secured in 3 ring binder
- 2.e. Log submitted
- 2.f. Competitors must be able to answer questions about the device per the Building Policy
- 3.a. No electrics, electronics, toy or professional instruments or components except strings in device
- 3.b. Device plays an ascending major scale with octave jump
- 3.c. Device plays pitches for Twinkle, Twinkle
- 3.e. Energy must come from competitors, who may not hum or sing
- 3.f. Device fits in 60.0 x 60.0 x 100.0 cm box
- 4.d. Students put tuner away after 2 mins

## Pitch Score Tests

Major Scale _____			
Pitch #1: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #2: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #3: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #4: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #5: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #6: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #7: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		
Pitch #8: Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		

## Team Information

Team #: \_\_\_\_\_ Team Name: \_\_\_\_\_

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Competitor Names:

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## Log (each item can get 0 – 2 points)

List of materials in device	_____
Data on pitch accuracy vs. design change	_____
Includes at least 5 data points	_____
Proper labeling (e.g. title, name, units)	_____
Labeled device picture/diagram	_____

## Song Score Test

Rhythmic accuracy (max 3)	_____
Pitch accuracy (max 3)	_____
Played within 15 secs (max 3)	_____

## Part I: Written Test

Exam Score	_____
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## Bonus Pitch

Target Note _____	or Skipped	Y	N
Measured Freq _____	or Cents off _____		

## Penalties

Competition violations(s)	Y	N
Team didn't bring a device	Y	N
DQed for unsafe operation	Y	N
Construction violations corrected	Y	N

## Team Verification

4.h. I verify the event supervisor has reviewed with me my team's recorded device testing data.

Signature \_\_\_\_\_