

Science Olympiad 2020-2021 Season Sounds of Music Checklist / Data Sheet

Version 1.0

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
- 3.g. Device uses same component types for all parts
- 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: _____

Competitor Names:

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 _____

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 _____