2020 MIT Science Olympiad Invitational Tournament Sounds of Music: Event Guide

January 25th, 2020

Exam Supervisor: Christopher Wang (Acton-Boxborough RHS '19, christopher.wang@wustl.edu)
Build Supervisor: Stefan Quaadgras (Acton-Boxborough RHS '19, stefanquaadgras@gatech.edu)
Head Volunteer: Kevin Tan (Arcadia High School '19, kevintan@college.harvard.edu)

Competitor	Names:				
School Nan	ne:				
TherThe When log (tTake	volunteer who gives you this hand n on standby, please wait SILENT the log will be scored during the B	aplete: the Written Exam, the Aura out has indicated which schedule y LY outside the Build Test rooms wild Test). Do NOT play your instens. The build scoring sheet is located at the final station you complete.	rou will follow. vith your instrument and your rument in the hallway.		
Time	Schedule 1	Schedule 2	Schedule 3		
10 min.	Build Test (Rms. 5-231 & 5-232)	Standby (Hallway)	Aural Exam (Rm. 5-217)		
10 min.	Aural Exam (Rm. 5-217)	Build Test (Rms. 5-231 & 5-232)	Standby (Hallway)		
10 min.	Standby (Hallway)	Aural Exam (Rm. 5-217)	Build Test (Rms. 5-231 & 5-232)		
30 min.	Written Exam (Rm. 5-233)	Written Exam (Rm. 5-233)	Written Exam (Rm. 5-233)		
Time	Schedule 4	Schedule 5	Schedule 6		
30 min.	Written Exam (Rm. 5-233)	Written Exam (Rm. 5-233)	Written Exam (Rm. 5-233)		
10 min.	Build Test (Rms. 5-231 & 5-232)	Standby (Hallway)	Aural Exam (Rm. 5-217)		
10 min.	Aural Exam (Rm. 5-217)	Build Test (Rms. 5-231 & 5-232)	Standby (Hallway)		
10 min.	N/A (free to leave)	Aural Exam (Rm. 5-217)	Build Test (Rms. 5-231 & 5-232)		
SCORING (for supervisor use only):				
Written Exam	::/100 (raw)/36 (scaled) Aural Exam:	/30 (raw)/9 (scaled)		
		Pitch Score:/36	_		

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

Version 1.2

Event and Construction Requirements

	1. Competitors construct onl	y 1 device				
	2.a. Reference materials seco	ured in 3 ring b	inde	r		
	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					
Ш	3.b. Device plays an ascending major scale with					
	octave jump					
П	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					
Pitch Score Tests						
						
ľ	Major Scale					
<u> </u>	Pitch #1: Target Note	or Skipped	Υ	N		
	Measured Freq	or Cents off				
<u>F</u>	Pitch #2: Target Note	or Skipped	Υ	N		
	Measured Freq	or Cents off				
	Ottob #2. Toward Note	an Chimmad	V	NI		
<u> </u>	Pitch #3: Target Note	or Skipped	Υ	N		
	Measured Freq	or Cents off				
<u>F</u>	Pitch #4: Target Note	or Skipped	Υ	N		
	Measured Freq	or Cents off				
ŗ	Pitch #5: Target Note	or Skipped	Υ	N		
<u>.</u>			•	14		
	Measured Freq	or Cents off				
<u>F</u>	Pitch #6: Target Note	or Skipped	Υ	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

Measured Freq _____ or Cents off _____

Ν

<u>Team Information</u>								
Team #: Team								
Competitor Names	-							
compensor rumes	•							
		_						
		_						
Log (each item can get 0 – 2 points)								
List of materials in device								
Data on pitch accuracy vs. design c								
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 Skipp	or Skipped		N					
Measured Freq or 0	Cents off							
<u>Penalties</u>								
Competition violations(s)	Υ	N						
Team didn't bring a device	Υ	N						
DQed for unsafe operation	Υ	N						
Construction violations corrected	Υ	N						

Team Verification

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

Signature _____