

Sound Shield Design Challenge– Assessment Rubric				
Criteria	Level 1	Level 2	Level 3	Level 4
Computational thinking	With support, is sometimes able to demonstrate computational thinking strategies by writing code that mostly makes sense.	Is sometimes able to demonstrate computational thinking strategies by writing code that mostly makes sense.	Can adequately demonstrate computational thinking strategies by writing code that makes sense and serves a specific function.	Can effectively demonstrate computational thinking strategies by writing code that makes sense and serves a specific function.
Sound Shield Design + Measurements	With support, is able to design, build, and test a mostly functional sound shield with a Micro:bit sound sensor device.	Is able to design, build, and test a mostly functional sound shield with a working Micro:bit sound sensor device.	Is able to sufficiently design, build, and test a mostly functional sound shield with a working Micro:bit sound sensor device.	Is able to efficiently design, build, and test a mostly functional sound shield with a Micro:bit sound sensor device.
Debugging	With support, can troubleshoot the device and mostly debug the system using a variety of strategies.	Can troubleshoot the device and mostly debug the system using a variety of simple strategies.	Can troubleshoot the device and debug the system using a variety of simple strategies.	Can troubleshoot the device and debug the system using a variety of creative strategies.
Presentation	Can showcase some of their system and, with prompting, explain how most of it works and the possible real-world applications.	Can showcase their system and, with prompting, explain how most of it works and the possible real-world applications.	Can showcase their system and explain how it works and the possible real-world applications.	Can comfortably showcase their system and explain how it works and the possible real-world applications.
Collaboration	With support, can work with group partners demonstrating developing collaboration skills	Can work well with group partners demonstrating adequate collaboration skills	Can work well with group partners demonstrating good collaboration skills	Is proficient in working with group partners, demonstrating strong collaboration skills