

| | Expectations | Excellent | Good | Improving | Getting Started | Evidence |
|---|--|-----------|------|-----------|-----------------|----------|
| Process (PART 1): Describe Your Team's Design Process | Research Process: We included evidence that our solution was informed by research, evaluation of existing solutions, and the needs of our "users". | | | | | |
| | Iteration: We shared specific examples of how our solution evolved from our initial ideas. | | | | | |
| | Benefits and Limitations: We described how our solution offers benefits and accounts for limitations in meeting the Challenge. | | | | | |
| | Viability: We demonstrated the viability of our solution using the Key Business Proposition. | | | | | |
| Use of ANC (PART 2): How will your solution cancel noise? | Modeling the Noise: We described the noise that is being canceled, identified its amplitude and frequency, and modeled it graphically and using an algebraic equation. | | | | | |

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| | <p>Canceling the Noise: We described how our solution will cancel the noise using a canceling wave, identified the amplitude and frequency of the canceling wave, and modeled it graphically and using an algebraic equation.</p> | | | | | |
| <p>Adapting for Various Sound Waves (PART 2): How will your solution account for noises with different frequencies and amplitudes?</p> | <p>Adapting the Models: We demonstrated how our solution will adapt to cancel noise with different frequencies and amplitudes by explaining how our graphs and equations would change.</p> | | | | | |
| <p>Minimizing Undesirable Impacts (PART 2): How will your solution minimize undesirable impacts on the user?</p> | <p>Meeting the Needs of Users: We explained how our solution will meet the needs of users.</p> | | | | | |
| | <p>Minimizing Side Effects: We described the ways that we minimized undesirable side effects from using our noise canceling solution.</p> | | | | | |