**Pre - Test: MP3 Amplifier**

**Discussion**

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| Why is it important to develop a clear understanding of the functional and aesthetic needs or desires for the intended customer market base for a product such as an amplifier or speaker? |

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| Why would it be easier to develop an amplifier or speaker that is shipped with the phone as opposed to an after-market product sold independently? |

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| How can advances in virtual and rapid prototyping impact the development of a product such as an amplifier or speaker? |

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| What types of materials or processes are best suited to allow for customizing the design of an amplifier or speaker? |

**Survey**

To what extent would you agree or disagree with the following statements:

1 - Strongly disagree 2 - Somewhat disagree 3 - Neutral 4 - Somewhat agree 5 - Strongly agree

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| **Based on the discussion and my own experience…** | **1** | **2** | **3** | **4** | **5** |
| I understand how an understanding of functional needs and aesthetic desires of consumers can impact the design of a product such as an amplifier or speaker |  |  |  |  |  |
| I understand the distinction between an accessory that is shipped directly with the primary product versus an accessory that is sold as an after-market accessory. |  |  |  |  |  |
| I understand how virtual and rapid prototyping can impact the design of a consumer electronic device such as an amplifier or speaker. |  |  |  |  |  |
| I have used Autodesk I123D Design before and understand the basics. |  |  |  |  |  |
| I have a solid understanding of the seven phases of design thinking. |  |  |  |  |  |

**What Do You Picture?**

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| Based on your discussions and thinking about your responses to the survey, sketch a few ideas that immediately come into your mind. It can literally be anything! |