# EQ Frequency Decision Lab

Choose a targeted equalizer change from supplied evidence.

Name _____ Date _____

Hz measures frequency; 1 kHz = 1,000 Hz. Use the given listening notes and adjustable bell bands. Negative gain cuts a band; positive gain boosts it. Treat each case separately and listen after changing it.

| Case | Listening note | Available band |
|---|---|---|
| A | Unwanted boom near 120 Hz | Bell centered at 120 Hz |
| B | Harshness near 3 kHz | Bell centered at 3 kHz |
| C | Need more energy near 8 kHz | Bell centered at 8 kHz |

**Use the model above. Write a brief answer for each item.**

**1. Write 3 kHz in Hz.**

**2. Which listed band has the lowest center frequency?**

**3. For A, first try a small cut or boost at 120 Hz?**

**4. For B, first try a small cut or boost at 3 kHz?**

**5. For C, which listed center frequency matches the goal?**

**6. Is -3 dB a cut or a boost?**

**7. Does a bell EQ affect only one infinitely narrow frequency?**

**8. Can the same EQ settings be assumed correct for every voice?**

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**Use the model above. Write a brief answer for each item.**

**1. Write 3 kHz in Hz.**

3,000 Hz

**2. Which listed band has the lowest center frequency?**

120 Hz

**3. For A, first try a small cut or boost at 120 Hz?**

A small cut.

**4. For B, first try a small cut or boost at 3 kHz?**

A small cut.

**5. For C, which listed center frequency matches the goal?**

8 kHz (8,000 Hz)

**6. Is -3 dB a cut or a boost?**

A cut.

**7. Does a bell EQ affect only one infinitely narrow frequency?**

No. It affects a band around its center.

**8. Can the same EQ settings be assumed correct for every voice?**

No. Listen and decide for the actual recording.