

# **IB Physics Topic C4 Standing Waves and Resonance; SL & HL**

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## 1 Origin of Standing Waves

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## 2 Parts of a Standing Wave

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### **3 Boundary Conditions for Standing Waves**

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## 4 All Cases of Standing Waves

### 4.1 Fixed-Fixed

### 4.2 Fixed-Free

### 4.3 Free-Free

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## 5 Standing Waves in Pipes

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## 6 Resonance

### 6.1 Pros and Cons of Resonance

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## 7 Natural Frequency

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## 8 Damping

### 8.1 Forced Vibrations

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