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**Summary:** "Long spaces, such as railway stations, urban streets, road tunnels and transition spaces within buildings, present acute acoustical problems. Acoustics experts recognise a need for better understanding of the behaviour of sound in such spaces, particularly the safety implications for public spaces, as classic acoustical theory is often not applicable due to the extreme dimensions involved."

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A classroom is a learning space in which both children and adults learn. Classrooms are found in educational institutions of all kinds, ranging from preschools to universities, and may also be found in other places where education or training is provided, such as corporations and religious and humanitarian organizations. The classroom provides a space where learning can take place uninterrupted ...

**Classroom - Wikipedia**
In reality, there are some properties of acoustics that affect the acoustic space. These properties can either improve the quality of the sound or interfere with the sound. Reflection is the change in direction of a wave when it hits an object. Many acoustic engineers took advantage from this.

**Acoustic space - Wikipedia**
Physical acoustics are important regardless of whether there is any AV technology in a space. The architect and acoustic consultant must work together to deliver appropriate outcomes for each space. The acoustic consultant on a project is generally commissioned for their advice on the physical acoustics of the space, the control of noise from adjacent spaces, mechanical and other systems and sometimes to provide guidance on the management of construction noise and vibration impacts.

**Acoustics in Teaching Spaces - AETM**
Acoustics is a first order approximation in which non-linear effects are neglected. In classical acoustics the generation of sound is considered to be a boundary condition problem. The sound generated by a loudspeaker or any unsteady movement of a solid boundary are examples of the sound generation mechanism in classical acoustics.

An Introduction to Acoustics
A theater or other building with good acoustics allows sound to travel naturally for long distances, enabling people to hear music, a play, or something else even if they are sitting far away from the stage. On the other hand, buildings with poor acoustics do not allow the sound to travel very well from one side of the space to another.

Acoustic Physics in the Theater | Octane Seating
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