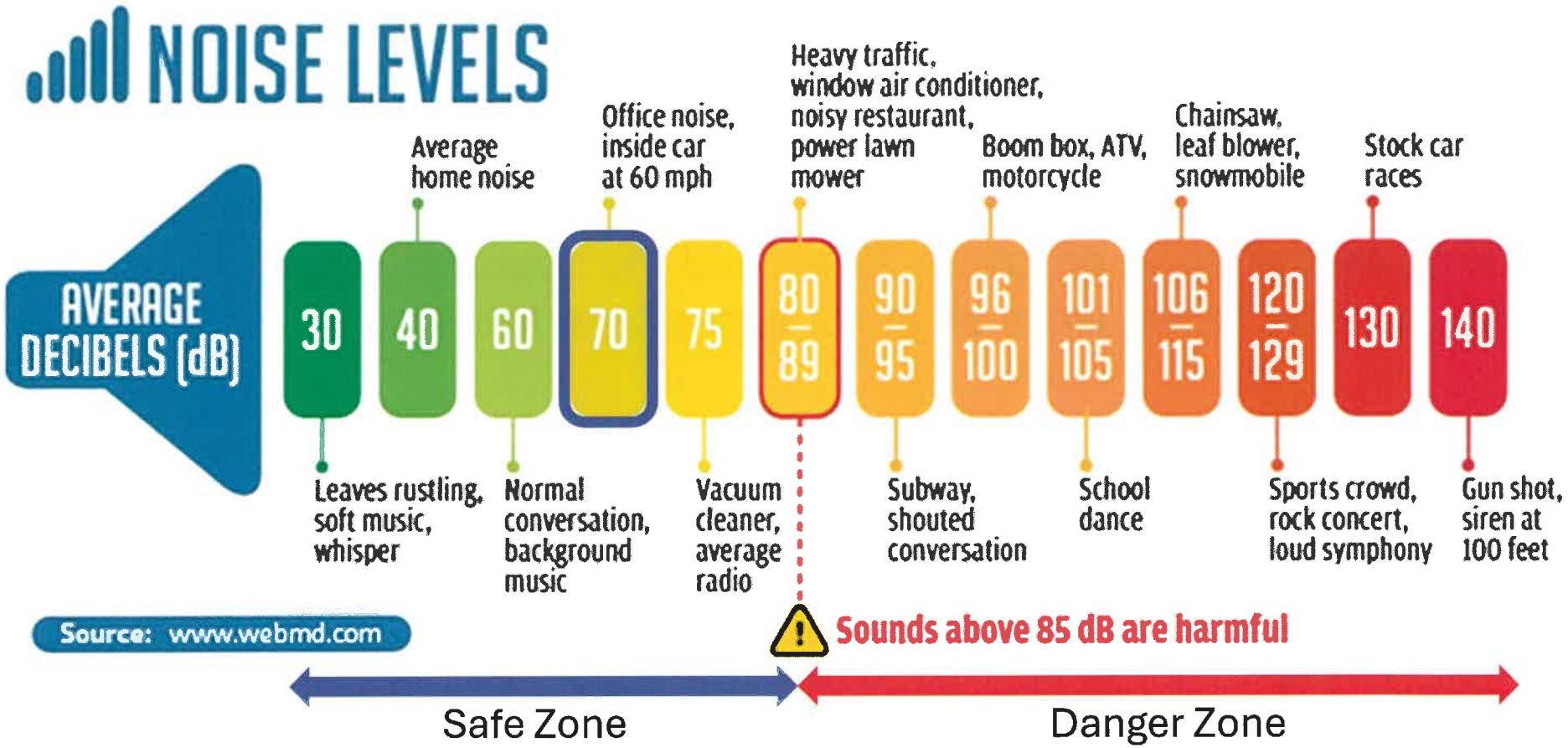

Sound Dissipation Formula

The sound dissipation formula over distance is represented by the inverse square law for sound intensity (I) and the inverse distance law for sound pressure (p), which result in a **6 dB decrease in sound pressure level** (SPL) for every doubling of distance in a free field.

The 6 dB Rule

For every time you double the distance from a sound source, the sound pressure level decreases by 6 dB.

Example: If a sound is 70 dB at 3 feet, it will be 64 dB at 6 feet, 58 dB at 12 feet, and so on. **At 192 feet, it will be 34 dB**