


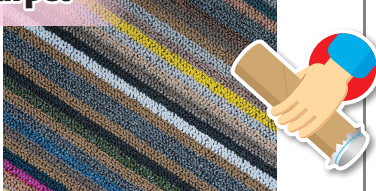




REFLECTORS AND ABSORBERS

Describe the materials. Predict the change in the loudness of the alarm. Test and record the results.

Material	Properties (hard/soft/ smooth/porous)	Loudness (softer/harder)	
		Predictions	Results
cabinet 			
window 			
curtain 			
carpet 			

When the tube was pointed at

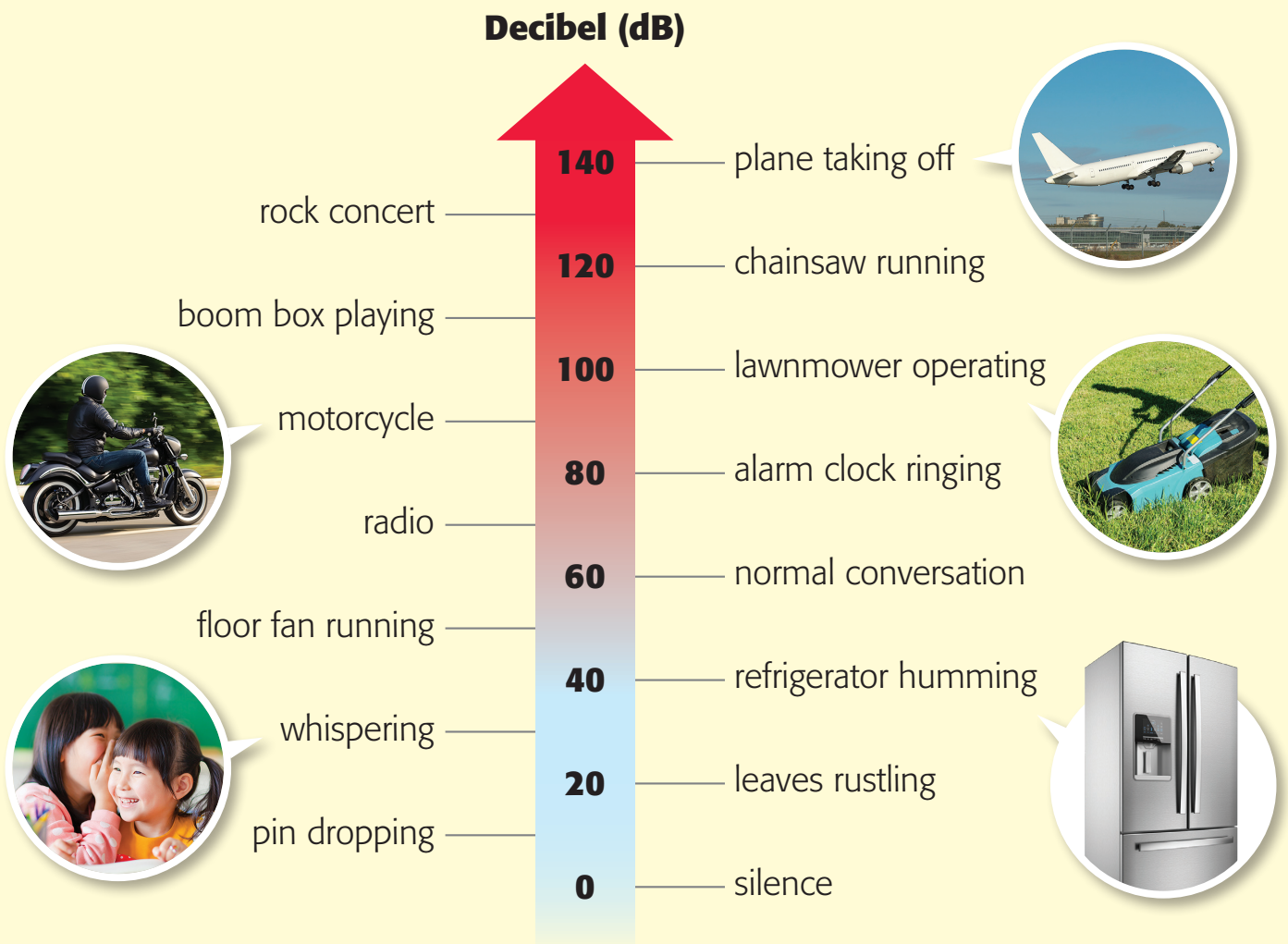
- hard and smooth surfaces, the sound was **louder / softer** .
- soft and porous surfaces, the sound was **louder / softer** .



REFLECTORS AND ABSORBERS

Sound Levels

The loudness of a sound is measured in decibels (dB). The louder the sound is, the higher its dB is. Any sound that is louder than 85 dB can be harmful to our hearing, depending on how long and how often we are exposed to it. The louder the sound is, the shorter period of time you can be exposed to it before any damage occurs.



Wear hearing protectors such as earplugs and earmuffs to protect your hearing especially when you know you will be exposed to loud sounds for an extended period of time.