

## Queensland Year 7-10 Science Outcomes for Strike a Chord

### Energy and Change overall core content

#### Transfer and transformation of energy types

- sound — vibration, pitch, frequency, volume, echo, travel of sound in solids, liquids and gases
- light — reflection, refraction, diffraction, visible spectrum, ray diagrams

### Life and Living overall core content

#### Observable features of plants and animals

- external — body covering, sense organs, limbs and other appendages, external skeleton, leaves, roots, stems, flowers, cones
- internal — tissues, organs, systems

**Observable behaviours** — nocturnal/diurnal, care of young, hibernation, deciduous/evergreen

**Functioning of systems of animals** — digestive, respiratory, circulatory, excretory, nervous, endocrine, skeletal, reproductive

### Level 4

Strike a Chord exhibits	Strand	Outcomes
Ear Relay Good Vibrations Hearing Range Sounds Strange Vocal Vowels	Life and Living	4.1 Students examine the internal and external structure of living things (including animal respiratory systems and plant systems) and account for observed similarities and differences in terms of adaptation.
All exhibits	Energy and Change	4.2 Students collect and present information about the transfer and transformation of energy (including potential and kinetic energy).

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### Level 5

<b>Strike a Chord exhibits</b>	<b>Strand</b>	<b>Outcomes</b>
Ear Relay Good Vibrations Hearing Range Sounds Strange Vocal Vowels	Life and Living	5.1 Students collect information about the structure (including cell structure) and function of living things and relate structure and function to survival.
All exhibits	Energy and Change	5.2 Students explain how energy is transferred and transformed (including energy transfer by convection and conduction).  <b>Discretionary learning outcomes</b> D5.4 Students apply ideas of energy transfer and transformation to common biological processes.