

DIGITAL BLING

Years 3–6 and 6–9 · 1 hour · Up to 30 students · Each student builds and keeps their own LED accessory

Students explore wearable technology by designing, building and customising their own LED bracelet, discovering how circuits, LEDs and power sources work together. The session closes with a wearable-tech fashion show in the dark, and every student takes their accessory home.

Australian Curriculum: Science (Version 9.0)

Sub-strand	Year	Content description	Code
Science understanding			
Physical sciences	6	investigate the transfer and transformation of energy in electrical circuits, including the role of circuit components, insulators and conductors	AC9S6U03
Physical sciences	8	classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems	AC9S8U05
Science as a human endeavour			
Use and influence of science	5–6	investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions	AC9S5H02 / AC9S6H02
Nature and development of science	9–10	investigate how advances in technologies enable advances in science, and how science has contributed to developments in technologies and engineering	AC9S9H02

Australian Curriculum: Design and Technologies (Version 9.0)

Sub-strand	Year	Content description	Code
Knowledge and understanding			
Engineering principles and systems	3–4	describe how forces and the properties of materials affect function in a product or system	AC9TDE4K02
Engineering principles and systems	5–6	explain how electrical energy can be transformed into movement, sound or light in a product or system	AC9TDE6K02
Materials and technologies specialisation	5–6	explain how characteristics and properties of materials, systems, components, tools and equipment affect their use when producing designed solutions	AC9TDE6K05
Engineering principles and systems	7–8	analyse how force, motion and energy are used to manipulate and control engineered systems	AC9TDE8K03
Materials and technologies specialisation	7–8	analyse how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions	AC9TDE8K06

Processes and production skills: students generate and communicate a design, select materials and safely produce a wearable solution, then evaluate it against design criteria (Years 5–6 band: AC9TDE6P02, AC9TDE6P03, AC9TDE6P04; equivalent descriptions apply in the Years 3–4 and 7–8 bands).

General capabilities: Critical and Creative Thinking · Personal and Social Capability

Delivery note: our facilitators arrive 30 minutes before the session to set up. A classroom or small hall and a projector or TV are required. All facilitators hold current Working with Children Checks (Blue Cards).

