









## Stage 3/4 - Overview

This lesson is about building knowledge and understanding of the Snowy 2.0 project, the next exciting chapter of the Snowy Scheme. The Snowy 2.0 Knowledge Quest is an online and printable activity designed to promote navigation and research skills, while engaging your students with the Snowy 2.0 digital pop-up book in pursuit of the answers. Follow the story as our four characters explain the engineering, fun facts, generation of clean, renewable energy and community outlook in an easy and informative way. This exercise can be either used to provide students with a space to work collaboratively, or as an independent learner.

Learning area	Content descriptions
 <b>Science - stage 3</b> <u>ACSHE098</u>	<b>Science as a human endeavour</b> Nature and development of science  Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena and reflects historical and cultural contributions
 <u>ACSHE100</u>	Use and influence of science  Scientific knowledge is used to solve problems and inform personal and community decisions
 <u>ACSSU097</u>	<b>Science understanding</b> Physical science  Electrical energy can be transformed in electrical circuits and can be generated from a range of sources
 <u>AC SIS232</u>	<b>Science inquiry skills</b> Questioning and predicting  With guidance, pose clarifying questions and make predictions about scientific investigations
 <b>Science - stage 4</b> <u>ACSSU116</u>	<b>Science understanding</b> Earth and space sciences  Some of Earth's resources are renewable, including water that cycles through the environment, but others are non-renewable
 <u>ACSSU155</u>	Physical sciences  Energy appears in different forms, including movement (kinetic energy), heat and potential energy, and energy transformations and transfers cause change within systems

 <b>ACSHE223</b>	<b>Science as a human endeavour</b> Nature and development of science  Science knowledge can develop through collaboration across the disciplines of science and the contributions of people from a range of cultures
 <b>HASS - stage 4</b> <b>ACHGK037</b>	<b>Knowledge and understanding</b> Unit 1: Water in the world - Yr 7  Classification of environmental resources and the forms that water takes as a resource

The subject of sustainability is a foundation for all learning areas and key concepts - sustainability - cross-curriculum priority (ACARA)

## Resources

<b><u>Online knowledge quest</u></b> - Snowy 2.0 Knowledge Quest <i>Please download this document before you begin</i>
<b><u>Snowy 2.0 digital pop-up book</u></b> - Snowy 2.0 digital pop-up book
<b><u>Answers Snowy 2.0</u></b> - Snowy 2.0 Knowledge Quest - answer sheet

## Lesson ideas and activities

### Snowy 2.0 Knowledge Quest

Please download this document before you begin. From here, the activity can either be filled in online or printed. It can be approached as a collaborative or individual activity, depending on device availability. It is designed to give your students an understanding of the Snowy 2.0 project.

### How to

Follow the instructions on the sheet, click the questions and let the characters guide the student through the Snowy 2.0 digital pop-up book to reveal the answers.

### Analysing and critical thinking challenge question

**Lisa from procurement - Question 2** provides an opportunity for students to critically think, formulate ideas and develop concepts of their own as they watch the local stories to gain a picture of life in a regional area. This question is also designed to stimulate broader thinking around the impact that a project like Snowy 2.0 will have, not only for regional development, but for the growth of Australia now and into the future.

### Extension idea

Ask the students to discover a Snowy 2.0 fact from the pop-up book and explore it further. Develop this idea or concept into an individual research topic to explore and expand. Their curiosity may lead to topic areas such as engineering, renewables, dam building, electricity, energy and other STEM-related subjects.