

Overview of Learning

In the Stage 2 learning sequence students develop skills in using geographical tools to build understanding of the physical and human characteristics of places that flood using the Hawkesbury-Nepean Valley as an example. Students investigate similarities and differences between places within the region, including their own place, human interactions with these places and the flood risk of various places. Stories of flooding outside the region provide information on past flood events as well as modelling ways in which geographical information can be communicated. In conclusion, students communicate ways in which people should prepare for and respond to flood events, including their role in preparations. There are three learning sequences, each containing two to four teaching and learning activities that support Stage 2 syllabus outcomes.

Geography K-10 Syllabus Outcomes

- **GE2-1** examines features and characteristics of places and environments
- **GE2-2** describes the ways people, places and environments interact
- **GE2-4** acquires and communicates geographical information using geographical tools for inquiry

Summary of Teaching and Learning Activities

SEQUENCE	ACTIVITIES	INQUIRY QUESTIONS	GEOGRAPHICAL TOOLS
1. Geography of the Hawkesbury-Nepean Valley	1.1 Locating the Hawkesbury-Nepean Valley	<ul style="list-style-type: none"> ▪ Where is the Nepean River? ▪ Where is the Hawkesbury River? ▪ How does the river come to have two names? ▪ Where is the Hawkesbury-Nepean Valley? ▪ What are the physical and human characteristics of the Hawkesbury-Nepean Valley? 	Visual representations – photographs, sketches Maps – online, large scale, regional Spatial technologies – satellite images, Street View Worksheet 1 and 2 – mapping – locating places
	1.2 Places that Flood in the Hawkesbury-Nepean Valley	<ul style="list-style-type: none"> ▪ What if the river rises above its banks? ▪ What areas will be affected by flooding? 	Visual representations – video, 3D modelling
	1.3 Flood Risk in the Hawkesbury-Nepean Valley	<ul style="list-style-type: none"> ▪ What is the likelihood of flooding for places in the Hawkesbury-Nepean Valley? ▪ What places will be flooded? ▪ What is a floodplain? ▪ Where does it flood near us? 	Visual representations – infographic Maps – regional Spatial technologies – flood overlays Worksheet 2 – summary and comparison table

SEQUENCE	ACTIVITIES	INQUIRY QUESTIONS	GEOGRAPHICAL TOOLS
	1.4 Characteristics of Floodplains, using Penrith/Emu Plains as an example	<ul style="list-style-type: none"> Where is the Nepean River? What places surround it? How do people interact with those places and environments? What is a floodplain? 	Visual representations – photographs Maps – online, large scale Spatial technologies – satellite images, 360° and Street View images Fieldwork – local area Worksheet 3 – mapping – land uses
2. Stories of Places that Flood	2.1 Brisbane Floods	<ul style="list-style-type: none"> What is it like when a place floods? How do people respond to floods? 	Visual representations – picture books, soundscapes, enactment Spatial technologies – satellite images
	2.2 Flood Story Maps	<ul style="list-style-type: none"> What is it like when a place floods? How do people respond to floods? 	Maps – story maps Worksheet 4 – summary and comparison table Worksheet 5 – analysis and comparison table
	2.3 Hawkesbury-Nepean Valley in Flood	<ul style="list-style-type: none"> What is it like when places in the Hawkesbury-Nepean Valley flood? What can we learn from past floods? 	Visual representations – photographs, videos, graphics Worksheet 6 – visual representation
3. Preparing for Flood	3.1 Planning for Floods	<ul style="list-style-type: none"> How will we prepare for a flood? How can we help keep ourselves and our animals safe? 	Visual representations – photographs, drawings, icons Worksheet 7 – summary table
	3.2 'Grab and Go' Videos	<ul style="list-style-type: none"> How will we prepare for a flood? What do we need to take if we evacuate? 	Visual representations – videos, drawings Worksheet 8 – storyboard