

INNOVATION STATION



PROGRAM DESCRIPTION

Join our education officers on Puffing Billy to examine and explore past and present design and technology innovations and solutions. Students commence their journey at Belgrave Station and visit the Menzies Creek Museum and Workshop. It's here that they learn about systems, materials, components and tools required to make informed design and technology solutions. They consider advantages and disadvantages of design ideas and technologies, including safety and risk. Students disembark at Lakeside Station to explore the Visitor Centre and consider design options with society, ethics, economic and social sustainability factors in mind. Students use creativity, innovation and enterprise skills with increased independence.

KEY THEMES

- Characteristics and properties of technologies
- Energy, Force, Motion
- Design processes and technology solutions
- Society, ethics, economic, environmental and social sustainability factors
- Investigate design and technology professions
- Advantages and disadvantages of design ideas and technologies
- The future of biodiversity

YEAR LEVELS

Year 7 – Year 8

CURRICULUM AREAS AND LEVELS

Level 7 – Level 8

- Technologies – Design and Technologies

PROGRAM OPTIONS

OPTION 1

Meet the Education Officer at Belgrave Station at 10:30am for a 11am Puffing Billy departure (approx. 50minute journey). Disembark at Lakeside Station at approximately 12pm. Enjoy lunch, the Lakeside Visitor Centre, an Educator led workshop and the natural surrounds. Depart on school bus from Lakeside, approx. 2pm.

OPTION 2

Meet the Education Officer at Belgrave Station at 10:30am for an 11am Puffing Billy departure (approx. 50minute journey). Disembark at Lakeside Station at 12pm. Enjoy lunch, the Lakeside Visitor Centre, an Educator led workshop and the natural surrounds. Depart on school bus from Lakeside to the Menzies Creek Museum at 1:15pm. Enjoy the Museum. Depart on school bus from Menzies Creek Museum at approx. 2:30pm.

Other options can be scheduled according to Puffing Billy Railway timetable.

DURATION:

Half Day

(approx. 10am - 2pm)

COST:

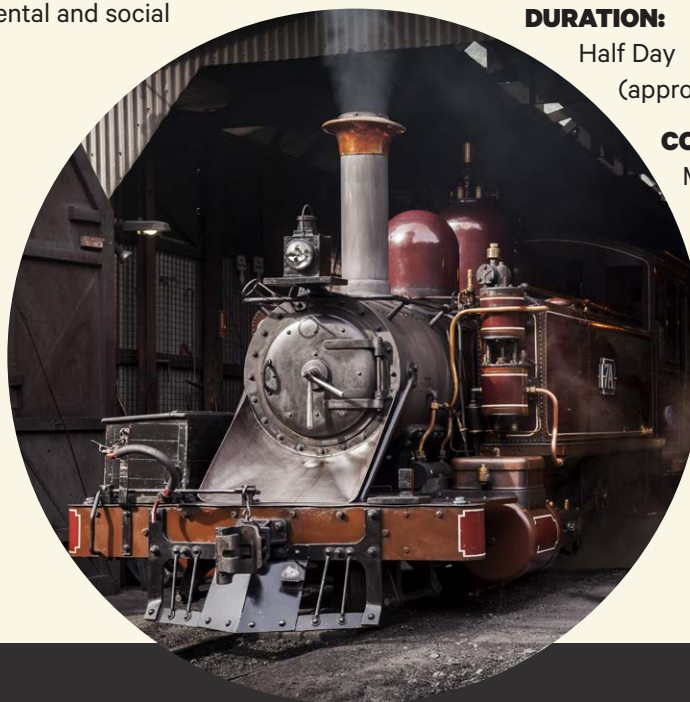
Midweek only -

\$25 per student

Midweek only -

\$37 per adult

We offer 1 staff Free of Charge (FOC) for every 10 students travelling.



PUFFING BILLY
RAILWAY



BOOKINGS/ENQUIRIES

E: info@pbr.org.au **P:** 03 9757 0700

PUFFINGBILLY.COM.AU

INNOVATION STATION



FOOD, BEVERAGES AND SOUVENIRS

A range of food and beverage options are available for purchase from our stations and the Lakeside Visitor Centre café, including pies, sandwiches, hot and cold drinks as well as ice creams and sweets. Pre-purchased kids' lunch packs are also available.

Additionally, a range of Puffing Billy merchandise is for sale, including the very popular Puffing Billy flags!



TOILETS

Toilets are located at Belgrave, Menzies Creek, Emerald, Lakeside and Gembrook stations and the Lakeside Visitor Centre. Please note, there are no toilets available on board the train itself, so we encourage students to use the facilities before boarding.

Toilets with wheelchair access are located at Belgrave, Lakeside and Gembrook stations.



ACCESSIBILITY

Puffing Billy Railway is committed to offering an enjoyable experience for everyone and has a range of accessible facilities available for our passengers.

Our station platforms are not at the same height as our carriage doors; however, ramps are available to provide easy wheelchair access on many of our Excursion Trains. The wheelchair ramp width is 75cm.

Pathways to Belgrave, Lakeside and Gembrook stations are all wheelchair accessible.

To assist passengers with reduced mobility and to avoid our steep pathway entrance to Belgrave Station, passengers may be dropped off at Gate 4 which is in front of our Belgrave Station building on Old Monbulk Road. The area from the station to the platform is on one level.

CURRICULUM, STAFF AND RATIOS

Our education programs are linked to Victorian Early Years Learning and Development Framework (VEYLDF) and the Victorian Curriculum. Programs are presented by passionate Education Officers, who hold level 2 first aid qualifications and Working with Children Checks or are registered teachers. Puffing Billy Railway Education programs align with the Department of Education and Training excursion ratios.

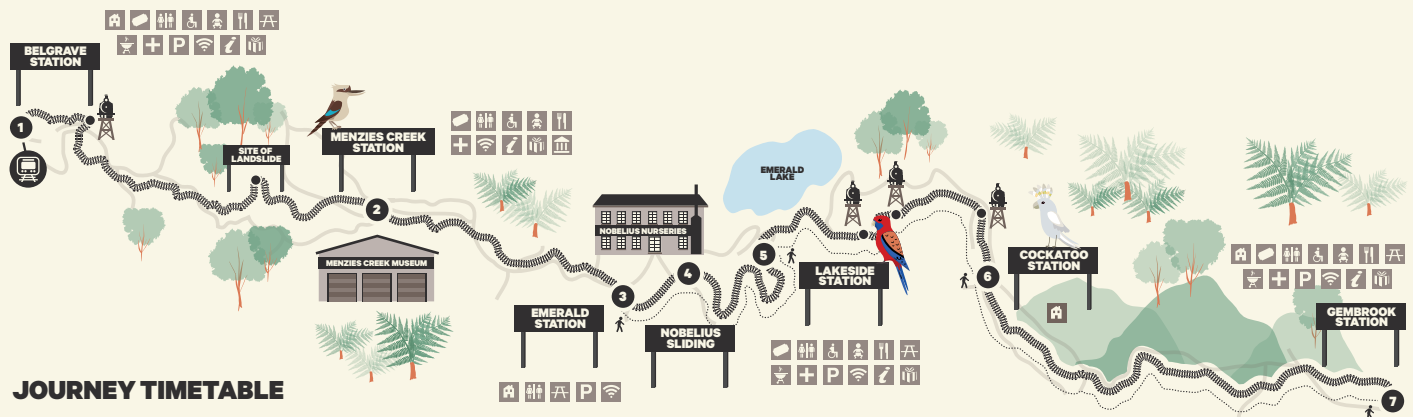


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CURRICULUM LINKS

THE VICTORIAN CURRICULUM – LEVEL 7 – LEVEL 8

STRAND	SUB-STRAND	CONTENT DESCRIPTION
Technologies and Society		Examine and prioritise competing factors including social, ethical, economic and sustainability considerations in the development of technologies and designed solutions to meet community needs for preferred futures (VCDSTS043)
Technologies and Society		Investigate the ways in which designed solutions evolve locally, nationally, regionally and globally through the creativity, innovation and enterprise of individuals and groups (VCDSTS044)
Technology Contexts	Engineering principles and systems	Analyse how motion, force and energy are used to manipulate and control electromechanical systems when creating simple, engineered solutions (VCDSTC045)
Technology Contexts	Materials and technologies specialisations	Analyse ways to create designed solutions through selecting and combining characteristics and properties of materials, systems, components, tools and equipment (VCDSTC048)
Creating Designed Solutions	Investigating	Critique needs or opportunities for designing and investigate, analyse and select from a range of materials, components, tools, equipment and processes to develop design ideas (VCDSCD049)



JOURNEY TIMETABLE

JOURNEY	SINGLE JOURNEY	RETURN JOURNEY
(refer to map above)	(subject to timetable)	(subject to timetable)
1 ↔ 2	30 minutes	Allow 3 hours
1 ↔ 3	50 minutes	Allow 3 hours
1 ↔ 5	60 minutes	Allow 3 hours
5 ↔ 7	40 minutes	Allow 3 hours
1 ↔ 7	1 hour 50 minutes	Allow 5 hours

MAP LEGEND

	Belgrave Metro Station		Toilet		Parenting room
	Town		Accessible toilet		Food & drink
	Booking Office		Parenting room		Picnic area
	BBQ facilities		Wi-fi		NEW! Menzies Creek Museum
	First aid		Information		Multi-purpose Eastern Dandenong Ranges Trail
	Parking		Souvenir Shop		Trestle Bridge



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