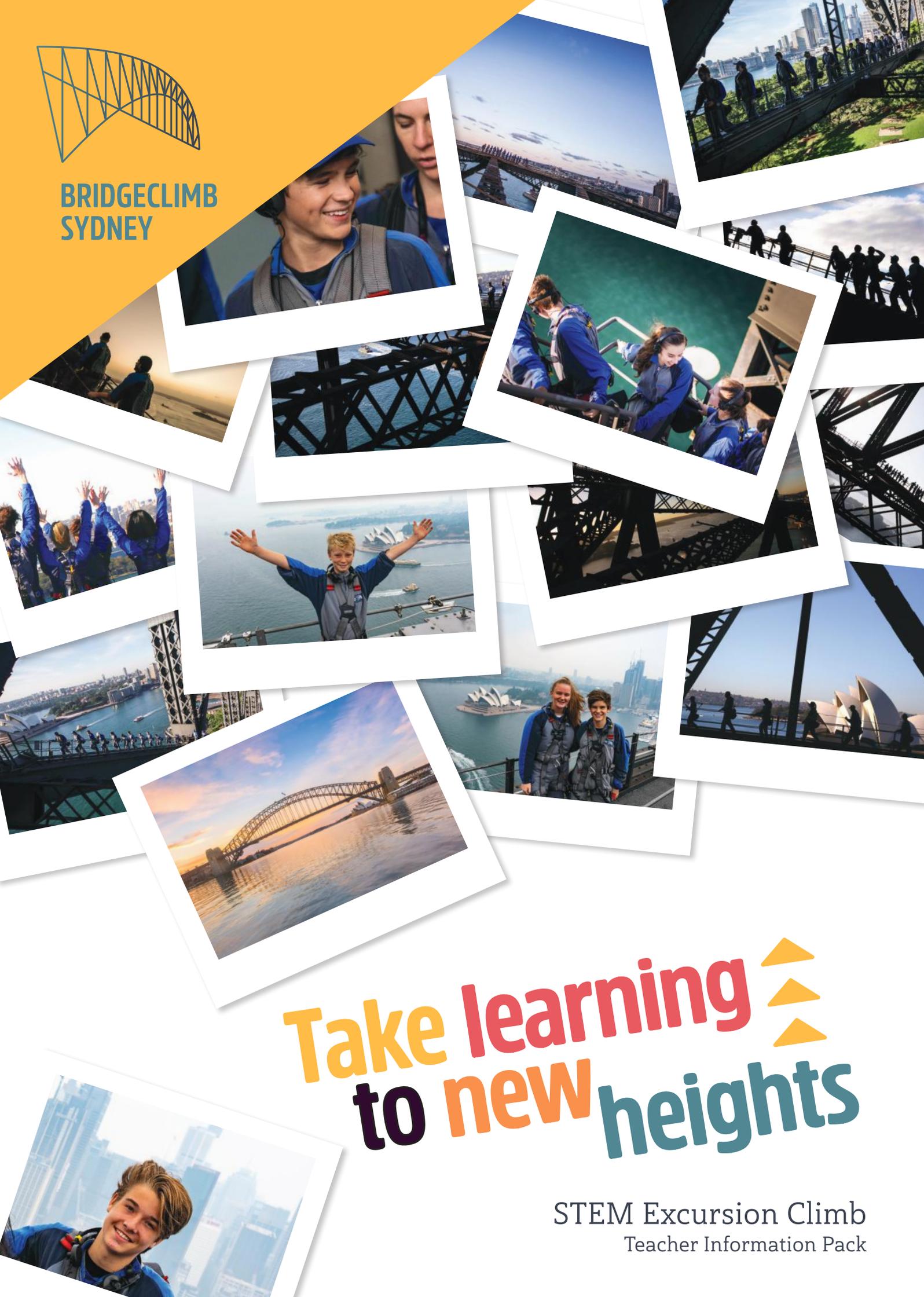
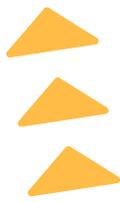


**BRIDGECLIMB
SYDNEY**



Take learning 
to new heights

STEM Excursion Climb
Teacher Information Pack

Take learning to new heights

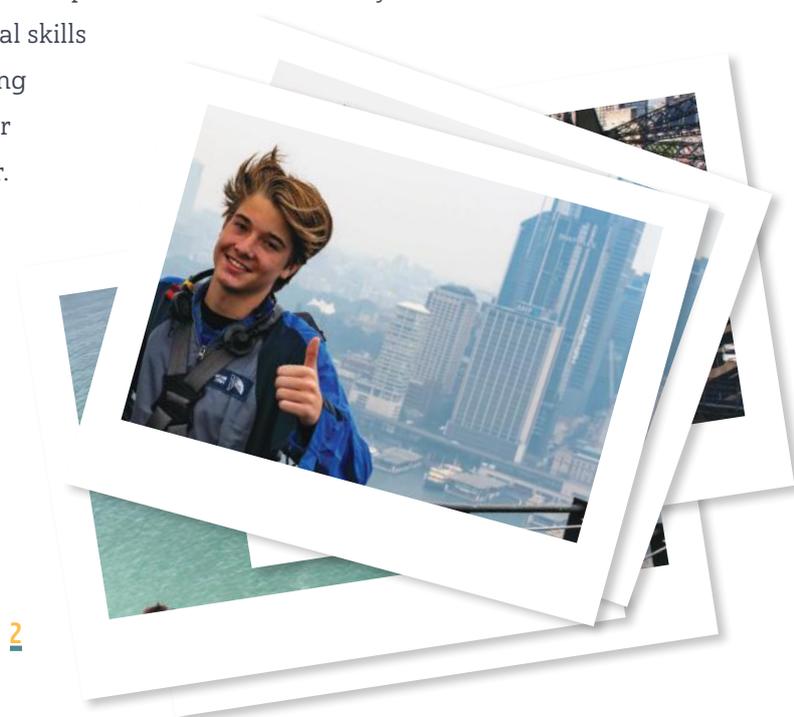
THE BRIDGECLIMB EXPERIENCE

BridgeClimb Sydney has developed a customised School Excursion Climb that will immerse students in an eye-opening experience on the iconic Sydney Harbour Bridge, a masterpiece of history and engineering.

The Sydney Harbour Bridge is more than just an iconic landmark. It spans our sparkling harbour and dominates the stunning skyline. It's the pride of our city and we want to share it with future generations. Built before modern technology, the Bridge is rich in learnings across key curriculum subject matters and is the perfect 'real life' case study for a hands-on learning experience. Students will learn vital skills required in Science, Technology, Engineering and Mathematics (STEM) as they take their learning 134 metres above Sydney Harbour.

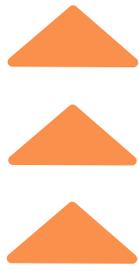
CONTACT US

1300 90 80 57 | events@bridgeclimb.com
www.bridgeclimb.com





The Bridge
is the perfect
place to *learn* and
nurture curiosity in
STEM by providing a
memorable experience.



INTEGRATED STEM SCHOOL EXCURSION CLIMB

Think big! Take creative learning to new heights by bringing students out of the classroom for a hands-on journey through the arches of the iconic Sydney Harbour Bridge. Students will grow vital skills required in Science, Technology, Engineering and Mathematics (STEM) as they take on an immersive journey through the iconic Bridge and learn from history exploring the ins-and-outs of this 1920s engineering masterpiece.

BridgeClimb Sydney has developed a customised Integrated STEM School Excursion Climb for Years 7 & 8 students. This Climb draws together syllabus outcomes from Stage 4 Science, Technology and Mathematic subjects in cross-curricular STEM integrated lessons, in accordance with the NSW Education Standards Authority (NESA).

| | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excursion Name | Integrated Stem School Excursion Climb |
| Location | BridgeClimb Sydney |
| Age Group | Stage 4: Year 7 & 8 (Please enquire if you're interested in other age groups) |
| Duration | Total experience time is 3 hours, including pre-climb activity. |
| Key Curriculum Outcomes | <p>Physical World and Chemical World (Science):</p> <p>SC4-10PW Change to an object's motion is caused by unbalanced forces acting on the object</p> <p>SC4-16CW The properties of the different states of matter can be explained in terms of the motion and arrangement of particles</p> <p>SC4-17CW Scientific knowledge and developments in technology have changed our understanding of the structure and properties of matter</p> <p>Built Environment Area of Study (Technology):</p> <p>TE4-1DP designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities</p> <p>TE4-2DP plans and manages the production of designed solutions</p> <p>TE4-8EN explains how force, motion and energy are used in engineered systems</p> <p>TE4-10TS explains how people in technology related professions contribute to society now and into the future</p> <p>Properties of Geometrical Figures 1 (Maths):</p> <p>MA4-1WM Communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols</p> <p>MA4-2WM Applies appropriate mathematical techniques to solve problems</p> <p>MA4-3WM Recognises and explains mathematical relationships using reasoning</p> <p>MA4-17MG Classifies, describes and uses the properties of triangles and quadrilaterals, and determines congruent triangles to find unknown side lengths and angles</p> |
| Price | <p>\$149 per child (Minimum of 10)</p> <p>Teachers: One teacher is complimentary with every group of 10 students \$198 for each additional teacher</p> |



STEM CLIMB INCLUSIONS

- ✓ **Guided Climb** with a professional Climb Leader
- ✓ **Teacher Excursion Pack** - includes lesson activities linked directly with syllabus outcomes from Science, Technology and Maths with teaching strategies, resources and links that can be used for approximately 4 weeks of classroom time. Lesson activities have been organised into three sections: Preparing for the Climb | The Climb | Post-Climb
- ✓ **Student Activity Sheet** for completion post-Climb at BridgeClimb or back in the classroom
- ✓ **Key representatives** from the BridgeClimb team present to offer in-depth insights into the Bridge maintenance and engineering
- ✓ **Pre-Climb activity and briefing** session in BridgeClimb's Events space, with option to use post-climb
- ✓ **Guided Climb** with a professional Climb Leader
- ✓ **Complimentary Climb Group Photo** at the Summit
- ✓ **Commemorative BridgeClimb Cap** for each student
- ✓ **Certificate of achievement** for each student



TEACHER RESOURCES

At BridgeClimb Sydney, we endeavour to provide teachers with all the resources needed to enable them to create an exceptional educational experience for each and every student.

Once your Climb is booked, we will provide a Teacher Excursion Pack that outlines a program of work with teaching activities, resources and links that can be used for approximately 4 weeks of classroom time.

Teachers can use all, or some of the lesson material based on what is suitable for their students, school context, scope, resources and time. The pack guides students as they work through a series of activities that cover topics such as:

- Bridge types, forces, tension and corrosion;
- Geometry in Bridge design;
- Creative and problem solving activities that integrate thinking and content from science, technology, engineering and maths.

As well as the BridgeClimb experience, the supplied teacher pack is designed to further enhance the STEM Climb Excursion and to give practical experiences that are connected to current curriculum. All teaching strategies and links to resources are supplied, as well as options for diversity.

A video presentation will also be included as part of the pre-Climb activity, as well as a post-Climb student activity sheet.

THINGS YOU NEED TO KNOW BEFORE YOU CLIMB:

PREPARATION

How should you prepare for your Climb?

Ensure every Climber has eaten before the Climb and they're well-hydrated - the experience can last up to 3 hours. All Climbers should wear comfortable, enclosed rubber-soled shoes such as running, sport or hiking shoes and bring sunglasses (if required). We also recommend all Climbers to wear comfortable clothing. We'll equip you with everything else you need for your Climb! Ensure you arrive 15-20 minutes before your scheduled Climb time to allow enough time to check-in.

All personal belongings can be stored in lockers:

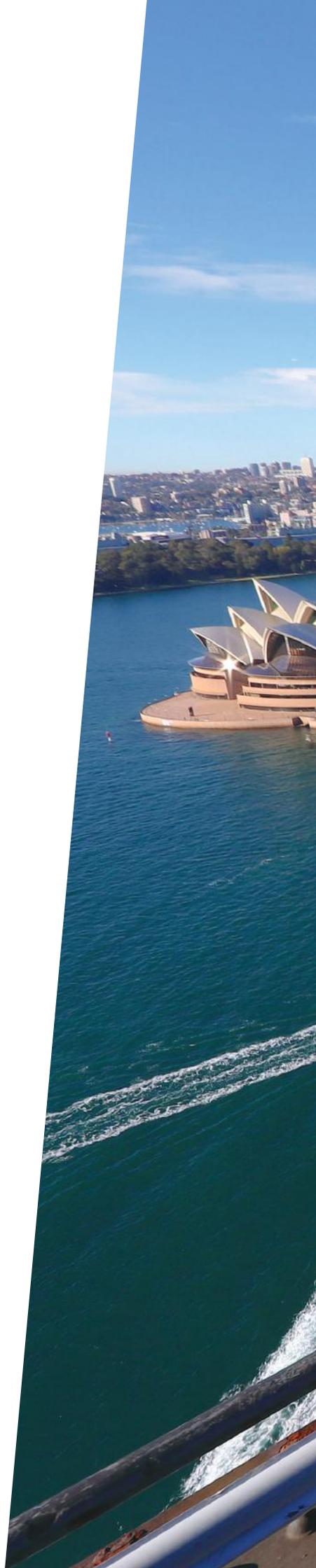
We provide FREE secure lockers. Our Climb Leaders will capture photos during your Climb. For safety and security reasons, cameras, video technology and mobile devices are prohibited on the Climb.

You must be 8 years old, or above, and 1.2 metres in height, or taller:

Children aged 8 to 15 must be accompanied by and are the responsibility of their supervising adult. (Please note: Two supervising adults are required per Climb group of 14 - see SAFETY information for more details)

Climbs operate in all weather conditions:

We will equip you with all the gear you need to keep you dry, but remember to bring your own shoes, which should be enclosed, like running shoes. In case of extreme weather conditions like electrical storms or during times of extremely high wind, Climbs may be postponed. If you have any concerns, please contact our team.





SAFETY

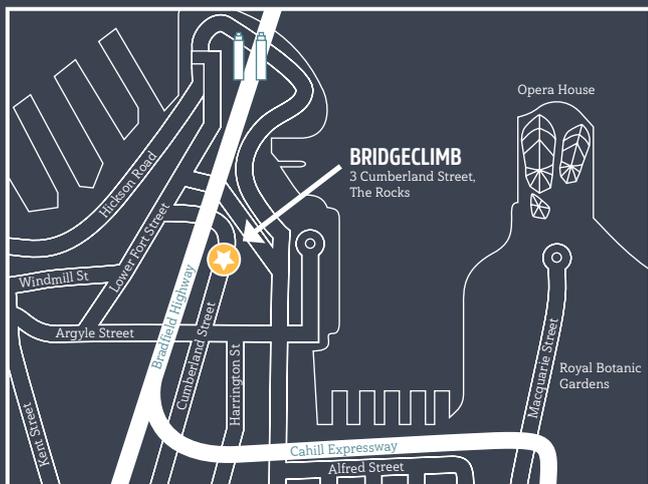
When considering whether this activity will be right for your school group, we would like you to consider the following:

- Safety is and always will be our number one priority for all of our Climbers.
- We will equip school children with a Climb suit, harness, gloves, or fleeces based on the day's weather conditions.
- The stories our Climb Leaders share during the experience are engaging, educational and tailored to the STEM Climb.
- Teachers / Supervisors must remain with their school group throughout the Climb experience, and must assist the BridgeClimb team by managing their equipment preparation and behaviour.

PLEASE NOTE: Two supervising adults are required per Climb group of 14. In the circumstance that a Climber needs to return to base for any reason, one of the supervising adults must return back to the base with the Climber, while the other adult may continue the climb with the rest of the Climb group.

CATERING OPTIONS

If required, BridgeClimb Sydney is able to provide school lunch packs that can be eaten within BridgeClimb's on-site Event Space following the Climb. Please ask for details when booking.



LOCATION

BridgeClimb Sydney is conveniently at:
3 Cumberland Street, The Rocks, Sydney

TRANSPORTATION

Buses and coaches are permitted to set-down and pick-up in Cumberland Street between Essex and Gloucester Street. Ask one of our team members for more information.

HOW TO BOOK

Bookings are essential for all STEM School Excursion Climbs and visits to BridgeClimb Sydney.

For enquiries and bookings:
events@bridgeclimb.com
1300 90 80 57

We look forward to welcoming you to BridgeClimb Sydney!



**BRIDGECLIMB
SYDNEY**