

**QUEENSLAND
MUSEUM**

PRESENTS

**World
Science
Festival
Brisbane**

March 24–28



2021 Education Program

World Science Festival Brisbane (WSFB) is committed to creating engaging experiences for students of all ages, grounded in curriculum and supporting a culture of lifelong learning.

We are excited to return in 2021! The WSFB Education Program will run from Wednesday 24 March to Friday 26 March 2021.

This program will create opportunities for young minds to engage with STEM outside the formal classroom environment with our engaging education experiences. Plus, we have been working directly with teachers to ensure our education offering is clearly linked to the curriculum and will fit right into your classes lesson plans.

COVID-19 has created many unique challenges for delivering events, however we have adapted the program to accommodate COVID safe planning and event delivery. The health, safety and wellbeing of our staff and visitors is our priority, always.

Some regular WSFB events and resources are going online, many talks will be available via our website and Brisbane will be transformed into the *City of Science!*

No matter what, now is the time to celebrate science—we hope your class will join us!

Supervision – adult/child ratio

One adult FREE for every:

- 3 prep students
- 5 primary school students
- 10 students in year 7 to 10
- 15 students in year 11 to 12

Please note you will need to quote adult numbers when purchasing tickets.

Supervision of students

Group supervisors are responsible for the supervision of students and children while at the WSFB and Queensland Museum and should remain with the students at all times.

Bookings

School bookings are essential. Bookings for programs during WSFB must be booked through QTIX Group Sales.

To book, please complete QTIX's Group Booking Form via the Buy Tickets link on the website.

If you have any questions, please phone QTIX Group Sales on 07 3840 7466.

Visitors with individual needs

At Queensland Museum we aim to provide access to all visitors. There is easy lift access to the Museum from the car park and for bus and taxi passengers from Grey Street.

All entrances and areas are wheelchair accessible.

Disabled toilet facilities are located on Level 0, level 2, and in *SparkLab*.

For more information visit www.qm.qld.gov.au

**QUEENSLAND
MUSEUM**



**Queensland
Government**

Enquire Online
worldsciencefestival.com.au/schools

Physics – The Language of the Universe

Date: Wednesday 24 March 2021

Venue: Concert Hall

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

HIGH SCHOOL SESSION:

Time: 10am – 11am

Grade recommendations: Years 7 to 10

Curriculum links: ACSSU117, ACSSU155, ACSSU177, ACSSU182, ACSSU188, ACSSU190, ACSSU229

PRIMARY SCHOOL SESSION:

Time: 1pm – 2pm

Grade recommendations: Years 3 to 6

Curriculum links: ACSSU048, ACSSU049, ACSSU076, ACSSU080

Ever wondered how the universe works?

Whether it is telecommunications, staying on your bike, colliding galaxies or the Big Bang; physics is the science that describes how the universe—and everything in it—works.

Join us for a journey through space and time as we explore physics from the very big (colliding galaxies and supermassive black holes) through to the very small (lasers and the coldest temperatures in the universe).

Hear from world leading physicists and learn how astronomers studying the universe, magnetically levitating trains and lasers are all linked by the same laws of physics.

Pandemic – The Race for a Cure

Date: Wednesday 24 March 2021

Venue: Playhouse

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

HIGH SCHOOL SESSION:

Time: 1.30pm–2.30pm

Grade recommendations: Years 7 to 12

Curriculum Links: Year 11 & Year 12 Biology Unit 2

Global pandemics are not new to us. From the Black Plague of the 18th century when a third of the European population died, to the 1920s when the Spanish Flu killed over 50 million people, and now over a million people worldwide have died from COVID-19.

How have we overcome pandemics in the past and why is it so hard to make a vaccine? Join us at *Pandemic – The Race for the Cure* to learn about the history of vaccines and diseases through the ages, plus hear directly from the heroes at the forefront of the global fight against COVID-19.

Pandemic – The Race for a Cure

Date: Wednesday 24 March 2021

Venue: Playhouse

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

PRIMARY SCHOOL SESSION:

Time: 10.45am–11.30am

Grade recommendations: Years 3 to 6

The year 2020 was a very important year for all the wrong reasons! School lessons moved back home, holidays got called off, workers stopped going to the office, people stopped travelling and lots of people around the world got COVID-19.

Why did all of that happen? How did the illness spread, why was it so important for us to stay at home, and how can each one of us make a huge difference to stop the spread of disease?

Find out at *Pandemic – The Race for a Cure*, and learn why washing your hands and wearing a mask are the best defence you have against microscopic viruses. Best of all, you get to hear from the very scientists fighting the war against COVID-19.

Light and the Solar System

Date: Thursday 25 March 2021

Venue: Playhouse

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

PRIMARY SCHOOL SESSION:

Time: 10.45am–11.30am

Grade recommendations: Years 3 to 6

Curriculum links: ACSSU048, ACSSU049, ACSSU075, ACSSU076, ACSSU078, ACSSU080

Come on a journey through space and time with astrophysicist Prof Tamara Davis. Learn about the Sun, planets, and all the other objects that make up our solar system, and find out where we fit into the universe.

Biology – The Circle of Life

Date: Thursday 25 March 2021

Venue: Concert Hall

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

HIGH SCHOOL SESSION:

Time: 10am–11am

Grade recommendations: Years 7 to 10

Curriculum links: ACSSU111, ACSSU112, ACSSU149, ACSSU184, ACSSU185

PRIMARY SCHOOL SESSION:

Time: 1pm–2pm

Age recommendations: years 3 to 6

Curriculum links: ACSSU044, ACSSU072, ACSSU094

What do an ant, a whale, bacteria and a forest all have in common? They're all connected by the circle of life.

Join three of the world's leading biologists for a journey from the most basic forms of life in the universe and see how through the circle of life they are connected to the most complex example of life ever known....you!

Pioneers in Science

Date: Thursday 25 March 2021

Venue: Playhouse

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

HIGH SCHOOL SESSION:

Time: 1.30pm–2.30am

Grade recommendations: Years 7 to 12

Curriculum links: ACSHE119, ACSHE134, ACSHE157, ACSHE158, ACSHE160, ACSHE191, ACSHE192, ACSHE194, ACSHE223, ACSHE226

If you have ever wondered how to become a scientist? How discoveries are made? Or how to win a noble prize? Then Pioneers in Science is the must see event for you.

At Pioneers in Science a line-up of the best and brightest scientists will tell you how they got to where they are, the new methods of discovery they have pioneered, and what secrets of the universe they have found.

Chemistry – The Science of Change, Life and Explosions

Date: Friday 26 March 2021

Venue: Concert Hall

Location: Queensland Performing Arts Centre (QPAC), South Brisbane

Cost: \$10

HIGH SCHOOL SESSION:

Time: 10am–11am

Age recommendations: years 7 to 10

Curriculum links: ACSSU152, ACSSU179, ACSSU186, ACSSU187

PRIMARY SCHOOL SESSION:

Time: 1pm–2pm

Grade recommendations: Years 3 to 6

Curriculum Links: ACSSU046, ACSSU074, ACSSU077, ACSSU095

You and everything you touch is made up of atoms. But how do all the building blocks of the universe stick together to make the Earth and everything on it?

See three of Australia's leading chemists explore all the ways atoms and molecules interact and learn why DNA looks like a spring, why bombs explode and much, much more.

Not only will you learn how the world works—you'll see fire, hear bangs and witness every chemical reaction you can imagine and some that you can't!

The Hatchery: Turtle Conservation Experience

Dates: Wednesday 24 March – Friday 26 March 2021

Venue: Queensland Museum

Location: Corner Melbourne and Grey Streets, South Brisbane, Queensland

Cost: Free (online booking required)

Age recommendation: All ages

Session times: School sessions are available 11am–2.30pm on Wed/Thurs/Fri.

WSFB annual turtle hatching is an important conservation initiative that allows intimate access to Australia's precious Loggerhead turtles.

Visitors will get a rare glimpse of hatching turtles in their incubation chambers and the first moments of their ocean lives as they meet a seawater environment in specially designed tanks.

In 2021 the Hatchery will also include online educational resources focused on the increasing threats of plastic pollutions to these special marine animals.

This initiative is designed in collaboration with internationally renowned herpetologist Colin Limpus and Queensland Museum Senior Curator of Reptiles and Amphibians, Biodiversity Program and Chair of the Animal Ethics Committee Patrick Couper.

After the festival, the newborn turtles will be transported to the Sunshine Coast and released 20 km off shore.

Session information:

A session consists of 30 students plus 6 teachers/carers.

Please arrive 10 minutes before your scheduled ticket entry time.

The Hatchery is open to the general public after 2:30pm.

Schools information:

- All tickets purchases are for single entry.
- Large bags, food, and drink cannot be taken into The Hatchery.
- Please note our student to adult ratio—see the Schools Information Page for more details.

If you wish to visit other exhibitions or free programs at the Queensland Museum, please book these through Queensland Museum schools and group bookings. Phone 07 3840 7608 Monday to Friday 8:15am–3:30pm or book via www.qm.qld.gov.au/visit+us/schools+and+groups

SparkLab

With interactive exhibits and immersive program experiences, *SparkLab* is where you can follow your curiosity and bring out your inner scientist as you question, investigate and wonder about your everyday world. Think creatively as you design in the Maker Space, get up close to experiments in the Science Bar and experience the wonder of our changing world with Science on a Sphere.

Ideal for: Prep – Year 8

Sea Monsters

19 November, 2020 – 3 May, 2021

Dive into ancient oceans with this rare glimpse underwater and... back in time. Investigate the extraordinary with us - from a delicate baby Ichthyosaur reproduction, to fossilised stomach contents, full-sized replica skeletons and 3D animations. Discover surprises in and around every corner as prehistoric oceans are brought to life.

Ideal for: All grades

Curiosity Schools Competition

Curiosity Brisbane in partnership with WSFB invites Queensland primary and secondary schools to submit ideas for Curiocities to be included in Curiosity Brisbane 2021.

Curiocities are interactive digital and physical installations that demonstrate the intersection of science, technology, engineering, maths and the arts.

They are fun and engaging temporary outdoor installations or digital works that will make Brisbane a playable city for locals and visitors to touch, see, hear, learn and wonder.

If successful, your Curiosity will be built and displayed at Curiosity Brisbane and World Science Festival Brisbane 2021, showcasing the talents of your students to thousands of visitors.

For more information visit
www.curiositybrisbane.com

Entries close 5pm on 18 November 2020

STRATEGIC PARTNERS



brisbane



PRESENTED BY

**QUEENSLAND
MUSEUM**



**Queensland
Government**