## KANTAR PUBLIC

## Queenslanders' <br> Perceptions \& Attitudes

 to Science 2023Kantar Public Research Report
Prepared for Queensland Government Department of Environment and Science

Cathy Day, Katrin Nuss
263407667
23 May 2023

## CONTENTS

EXECUTIVE SUMMARY ..... 3
THE RESEARCH ..... 5
AWARENESS, KNOWLEDGE \& INTEREST IN SCIENCE ..... 9
PERCEPTIONS \& ATTITUDES TOWARDS SCIENCE ..... 19
PARENTS' ATTITUDES \& BEHAVIOURS ..... 26
SCIENCE IN THE MEDIA ..... 33
SCIENCE ACTIVITIES \& EVENTS ..... 39
SCIENCE IN QUEENSLAND ..... 57
DEMOGRAPHICS ..... 60
KANTAR PUBLIC

## EXECUTIVE SUMMARY

## EXECUTIVE SUMMARY

## AWARENESS, KNOWLEDGE AND INTEREST

Overall, around half of Queenslanders provided a correct or partially correct definition of STEM (unprompted), and this has remained steady following an increase in 2021.
Consistently with previous years, science continues to be associated with school science subjects such as chemistry, biology and physics. Other associations include theories and experiments.
While three in five Queenslanders are generally interested in science, the proportion of those 'very interested' has softened and the proportion of those disinterested has continued to increase since 2016. Consistent with previous years, health \& medicine and biology are the top two areas of interest, with astronomy replacing technology in third place. While both genders have similar interest levels for astronomy, females tend to be more interested in health and medicine, and biology. Males, those aged under 45, and highly educated respondents were likely to show interest in any area of science.

## PERCEPTIONS AND ATTITUDES

Nearly four in five Queenslanders believe that scientific development has a positive impact on society, a steady trend since 2018. The proportion who feel science has a significant negative impact remains low at around 4\%. First Nations Peoples are significantly less likely to believe there has been a positive impact from scientific discovery.
The majority (80\%) feel that science is critical for the Queensland economy, and a similar percentage of respondents believes science will enable a broad range of job prospects.

Some of the negative perceptions about science, such as 'school science programs are not engaging and interesting for students' and 'scientific developments will reduce the number of jobs' have seen a decrease in agreement since 2018.

Parental encouragement of children to study science, pursue a career in science, and be involved in extracurricular activities related to science remains high, however, the degree of encouragement has somewhat softened. The percentage of parents who would discourage their children is highest among young parents and those who did not study beyond high school.

## MEDIA AND SCIENCE NEWS / INFORMATION

The majority still feel there is not enough information about science in the media, but this trend has been softening over the years, with one in three feeling content with the level of media coverage on science. This feeling is shared most among those aged 45 and 54 and among those currently working.
Most learn about local social events and activities via TV, followed by Facebook and other websites. While social media is more popular for those under 45, First Nations people and those currently working, TV is a more popular source of information about events for those aged 65 and over and retirees. There is an opportunity to increase awareness via social media channels, as those who use these channels regularly tend to find information through them.

## SCIENCE ACTIVITIES AND EVENTS

The majority (51\%) feel there are not enough science events and activities in their area, with metro residents being less likely to feel this way. Males and those aged under 45 are significantly more likely to be content with the number of events offered.

Consistently with previous years, visits to zoos/animal parks/aquariums, museums, and guided nature tours/botanic garden visits remain the most popular science-based activities. Those aged under 45 were significantly more likely to have participated in any science-based activity and parents were significantly more likely to have attended most activities. Interest in science-based activities is moderate, with the highest level of interest being among younger people, parents, and tertiary educated people.

Awareness of both National Science Week and the World Science Festival has remained steady since 2021 with SEQ residents being more aware of the World Science festival. One in two say they would be interested in events such as National Science Week in the future. While overall interest is at a similar level to 2021, the degree of interest has shifted, with more saying they are 'somewhat interested' rather than 'very interested'. While awareness of Citizen Science has increased since 2021, only $30 \%$ of those have participated. This is a decline from $44 \%$ in 2021, driven by a decline in people participating in their local area.

## SCIENCE IN QUEESLAND

One in five could name a scientist or scientific discovery. Mentions of scientists and medical / COVID-19 research increased significantly since 2021.

## COMMON DEMOGRAPHIC DIFFERENCES

There were some common demographic trends observed throughout, whereby certain groups consistently held greater interest and more positive perceptions towards science. These included: those aged between 25 and 54, tertiary educated, parents, and workers. Consistently with 2021, there were relatively few notable differences by region compared.

2
THE RESEARCH

## THE RESEARCH

## Background

The Queensland Government envisions a future where the community values science and recognises the positive impact of science on developing solutions to society's challenges. A scientifically literate and engaged community will be more prepared to plan and react to future challenges and take advantage of new opportunities.

The four-year Engaging Queenslanders in Science strategy (2021-24) is an initiative of the Queensland Government, designed to increase awareness and understanding about the importance of science, innovation and STEM (science, technology, engineering and mathematics) education.

This strategy has a larger goal of encouraging Queenslanders to engage in, recognise, support and advocate for science. Through engaging with science, Queenslanders' appreciation for science grows and will allow them to realise the benefits of science. This will build a community that uses, respects and advocates for science.

Since 2016, Kantar Public have conducted three studies among Queensland adults to measure and understand perceptions towards and engagement with science.

Following a review of the Engaging Queenslanders in Science strategy by the Office of the Queensland Chief Scientist (OQCS) based on previous research findings, the Engaging Queenslanders in Science Strategy 2021-24 was put in place.

The main objective of this research was to gain an updated view of Queenslanders' perceptions and attitudes towards science.

The 2023 survey aimed to continue measuring change since the implementation of the Engaging Queenslanders in science strategy.

## THE RESEARCH

## Methodology



1,242 Queensland residents aged 18 years and over took part.

Quotas were set to ensure all broad Queensland regions were represented (see next slide). Soft quotas on gender and age were also used to ensure a good spread of respondents.


Data was post-weighted to 2021 ABS
Census data to ensure that the sample is representative of the population statistics in Queensland. Weighting was conducted by age, gender and location within Queensland.


The survey design from 2023 remained largely consistent with the previous two studies, with minor changes where relevant.

The 10 minute online survey was scripted and hosted by Lightspeed Research, who also recruited participants from their panel partners.

## Uい 000

The survey was in field from the $17^{\text {th }}$ April to the 30 ${ }^{\text {th }}$ April, 2023.


Statistical significance testing has been based on demographic profiles and characteristics, namely: gender, age, region, parental status, education and employment status. For the purposes of this report, only statistically significant differences of interest are shown, as follows:

Denotes figure is significantly higher or
Where possible, comparisons have been made to the previous two studies, denoted by a dotted line: $=$ =-=

Caution is needed in interpreting data with small base sizes of $n=30$ and under.

The base note included on each page throughout the report represents the sample size; i.e., the number of respondents who answered the relevant question. On some charts, value labels below $3 \%$ have been removed for ease of reading.

Data shown in graphs and tables are rounded to the nearest whole number, and in some instances where results are summed, there may be a rounding error of $\pm 1 \%$.

KANTAR PUBLIC

## THE RESEARCH

## Broad Queensland Regions



KANTAR PUBLIC

3
AWARENESS, KNOWLEDGE \& INTEREST IN SCIENCE

## AWARENESS OF STEM ABBREVIATION

Almost half of Queenslanders know some or all of the STEM acronym, awareness having remained steady since 2021. English and Education were some commonly misattributed subjects.

AWARENESS OF STEM ABBREVIATION


49\%
knew some or all of the STEM abbreviation

- Correct
- Partially correct
- Incorrect
- Don't know

CHANGE IN AWARENESS OVER TIME


## AWARENESS OF STEM ABBREVIATION

Correct knowledge of the STEM acronym was more likely among those aged under 35 years.

AWARENESS OF STEM ABBREVIATION BY DEMOGRAPHICS

|  | TOTAL | $\bullet$ INCORRECT CORRECT $\longrightarrow$ |  |  | Incorrect | Fully or partially correct |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 16\% | 16\% | 33\% | 16\% | 49\% |
|  | Male | 17\% | 13\% | 33\% | 17\% | 46\% |
|  | Female | 15\% | 18\% | 33\% | 15\% | 51\% |
|  | 18 to 24 years | 17\% | 19\% | 40\% | 17\% | 59\% |
|  | 25 to 34 years | 22\% | 22\% | 39\% | 22\% | -62\% |
|  | 35 to 44 years | 20\% | 10\% | 45\% | 20\% | 54\% |
|  | 45 to 54 years | 15\% | 17\% | 29\% | 15\% | 45\% |
|  | 55 to 64 years | 10\% | 13\% | \% | 10\% | 39\% |
|  | 65 to 74 years | 12\% | 9\% |  | 12\% | 39\% |
|  | 75+ years | 17\% | 28\% | 16\% | 17\% | 44\% |

## AWARENESS OF STEM ABBREVIATION

Those with higher education, those currently working or studying, as well as parents, were also more likely to know the acronym.

AWARENESS OF STEM ABBREVIATION BY DEMOGRAPHICS

| $\bullet$ INCORRECT CORRECT $\longrightarrow$ |  |  |  | Incorrect | Fully or partially correct |
| :---: | :---: | :---: | :---: | :---: | :---: |
| High-school (up to year 12) | 15\% | 8\% | 27\% | 15\% | V 34\% |
| TAFE, Cert or Aprenticeship | 14\% | 18\% | 29\% | 14\% | 48\% |
| Undergraduate Degree | 19\% | 23\% | 45\% | 19\% | - 68\% |
| Postgraduate Qualification | 18\% | 22\% | 43\% | 18\% | 65\% |
| Parent | 17\% | 20\% | 39\% | 17\% | - 60\% |
| Not parent | 16\% | 13\% | 29\% | 16\% | $\nabla 41 \%$ |
| Currently working | 19\% | 18\% | 39\% | 19\% | - 57\% |
| - Retired | 13\% | 14\% | 22\% | 13\% | $\nabla$ 36\% |
| Not currently working (incl. home duties and study) | 16\% | 14\% | 35\% | 18\% | 49\% |

KANTAR PUBLIC

## UNPROMPTED UNDERSTANDING OF SCIENCE

Science continues to be associated with school science subjects such as Chemistry, Biology and Physics, as well as theories and experiments


## INTEREST IN SCIENCE

Nearly three in five Queenslanders state that they are generally interested in science．However，the proportion who feel disinterested continues to increase since 2016，and the proportion who are＇very interested＇has softened．

INTEREST IN SCIENCE


## 58\％

are interested
in science

■ Somewhat interested
－Neither interested nor disinterested
－Somewhat disinterested
■ Very disinterested

CHANGE IN INTEREST OVER TIME



## INTEREST IN SCIENCE

Interest is somewhat stronger among those aged 25 to 54 , while weaker for those younger and older. There continues to be a disinterest in science among those under 25.

INTEREST IN SCIENCE BY DEMOGRAPHICS

|  | TOTAL | DISINTERESTED |  | INTERESTED |  | $\underset{(1-2)}{\text { Net disinterested }}$ <br> $20 \%$ | $\underset{(4-5)}{\text { Net interested }}$ <br> $58 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 9\% | 11\% | 40\% | 18\% |  |  |
|  | Male | 9\% | 12\% | 38\% | 21\% | 21\% | 59\% |
|  | Female | 9\% | 11\% | 42\% | 15\% | 20\% | 57\% |
| 雷î | 18 to 24 years | 12\% | 15\% | 31\% | 24\% | 26\% | 54\% |
|  | 25 to 34 years | 5\% | 10\% | 49\% | 19\% | 15\% | 68\% |
|  | 35 to 44 years | 4\% |  | 40\% | 18\% | 19\% | 58\% |
|  | 45 to 54 years | 8\% | 9\% | 49\% | 12\% | 17\% | 61\% |
|  | 55 to 64 years | 12\% | 14\% | 42\% | 12\% | 27\% | 54\% |
|  | 65 to 74 years | 13\% | 8\% | 37\% | 19\% | 21\% | 56\% |
|  | 75+ years | 8\% | 10\% | 34\% | 15\% | 18\% | 48\% |

KANTAR PUBLIC

## INTEREST IN SCIENCE

Those with higher education are more interested in science in general. Parents and students also have a strong interest. Meanwhile, retirees and those not currently working are among the most disinterested groups.

INTEREST IN SCIENCE BY DEMOGRAPHICS


KANTAR PUBLIC

## AREAS OF INTEREST

Health and medicine, biology, and astronomy are the top 3 areas of interest for Queenslanders. Males, those under 45, and highly educated respondents were likely to show an interest in any area of science. The main difference between the top 3 areas is that females are more interested in health and biology than males, while both genders have a similar level of interest for astronomy.


## DEMOGRAPHIC DIFFERENCES

|  |  | 荞令 | $i^{9}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 92\% Male 94\% Female | $95 \%<45$ years 91\% 45+ years | 92\% Parent <br> 93\% Not parent | -88\% High schoo 93\% TAFE <br> -99\% Undergrad 98\% Postgrad |
| $\begin{aligned} & \text { I } \\ & \stackrel{\text { I }}{\underset{I}{\mid c}} \end{aligned}$ | $\mathbf{7 8} \%$ Male -74\% Female | $\boldsymbol{7} 47 \%$ < 45 years <br> $\triangle$ 66\% 45+ years | 56\% Parent 59\% Not parent | 52\% High schoo 63\% TAFE 56\% Undergrad 65\% Postgrad |
| $\begin{aligned} & \text { co } \\ & \text { O } \\ & \text { 응 } \end{aligned}$ | V31\% Male ©53\% Female | 50\% < 45 years 37\% 45+ years | 45\% Parent 42\% Not parent | 42\% High schoo 42\% TAFE <br> 47\% Undergrad 48\% Postgrad |
| $\begin{aligned} & \text { ¿ } \\ & \text { D } \\ & \text { Z } \\ & \text { 쑨 } \end{aligned}$ | 37\% Male 36\% Female | $40 \%$ < 45 years 33\% 45+ years | 36\% Parent 37\% Not parent | 42\% High schoo 34\% TAFE <br> 33\% Undergrad <br> 37\% Postgrad |

KANTAR PUBLIC

## AREAS OF INTEREST

Biology and Physics have seen increased interest over the years. Health and medicine has been the topic of greatest interest since 2016, having also seen a significant increase since 2021, while Technology has slipped to fourth position.

INTEREST IN BROAD AREAS OF SCIENCE


KANTAR PUBLIC

4
PERCEPTIONS \& ATTITUDES TOWARDS SCIENCE

## PERCEIVED IMPACT OF SCIENCE

Nearly four in five Queenslanders feel that scientific development has a positive impact on society，and this has remained stable since 2018.

PERCEIVED IMPACT OF SCIENTIFIC DEVELOPMENTS


## 76\％

believe scientific development has a positive impact on society

■ Significant positive impact
－Small positive impact
－Neither positive or negative impact
－Small negative impact
■ Significant negative impact
Don＇t know

CHANGE IN PERCEIVED IMPACT OVER TIME


## PERCEIVED IMPACT OF SCIENCE

Those aged 25 to 34 and those aged 65 to 74 are the most likely to believe there has been a negative impact from scientific discovery.

PERCEIVED IMPACT OF SCIENTIFIC DEVELOPMENTS BY DEMOGRAPHICS


KANTAR PUBLIC

## PERCEIVED IMPACT OF SCIENCE

Those with postgraduate qualifications and First Nations Peoples are among the most likely to believe there has been a negative impact from scientific discovery, though the proportion is relatively low. First Nations people are significantly less likely to perceive a positive impact from science.

PERCEIVED IMPACT OF SCIENTIFIC DEVELOPMENTS BY DEMOGRAPHICS
$\bullet$-NEGATIVE POSITIVE $\longrightarrow$


KANTAR PUBLIC

## GENERAL ATTITUDES TOWARDS SCIENCE

Most agree that science is critical for the Queensland economy and will enable job growth. Only one in five agree with the stereotype that scientists spend 'most of their day in a laboratory'.


KANTAR PUBLIC

## GENERAL ATTITUDES TOWARDS SCIENCE

The perception that 'it is easier to have a career in science if you are male' has decreased, while other perceptions have remained at a similar level to 2021.

AGREEMENT STATEMENTS ABOUT SCIENCE (\% AGREE 4-5)


KANTAR PUBLIC

## GENERAL ATTITUDES TOWARDS SCIENCE

Parents are significantly more likely to believe science is critical for the economy and that studying science will lead to a well-paying job. Those aged under 45 years are significantly more likely to believe a career in science is easier if you are male, scientific developments will reduce the number of jobs, and people in science-related careers spend most of their day in a laboratory.

## AGREEMENT STATEMENTS ABOUT SCIENCE (\% AGREE 4-5) BY DEMOGRAPHICS



KANTAR PUBLIC

## 5 PARENTS' ATTITUDES \& BEHAVIOURS

## ENCOURAGEMENT OF STUDY

Nearly four in five parents would encourage their child／children to study science subjects in high school，though the level of encouragement is softening．

ENCOURAGEMENT OF CHILD STUDYING SCIENCE


## 78\％

would encourage their child to study science subjects in high school

■ Strongly encourage
■ Somewhat encourage
－Neither encourage nor discourage
$\square$ Somewhat discourage
■ Strongly discourage
Don＇t know

CHANGES IN ENCOURAGEMENT OVER TIME


## ENCOURAGEMENT OF STUDY

Very few would discourage their children from studying science, though this is slightly more common among younger parents (aged 18-24) and those who did not study beyond high school.


KANTAR PUBLIC

## ENCOURAGEMENT OF CAREER

Seven in ten would encourage their child to pursue a career in science．Total level of encouragement remained stable since 2021 after an increase in 2018.

ENCOURAGEMENT OF SCIENCE－BASED CAREER


## 70\％

would encourage their child to consider a science－ based career

■ Strongly encourage
■ Somewhat encourage
－Neither encourage nor discourage
■ Somewhat discourage
－Strongly discourage
Don＇t know

CHANGES IN ENCOURAGEMENT OVER TIME


## ENCOURAGEMENT OF CAREER

Parents with university qualifications are among the most likely to encourage their children to pursue a science-based career.


KANTAR PUBLIC

## ENCOURAGEMENT OF ACTIVITIES

Two in three parents would encourage their child to be involved in extra－curricular science activities．This remains a significant increase from $58 \%$ in 2018，despite a slight drop since 2021.

ENCOURAGEMENT OF SCIENCE－BASED ACTIVITIES


## 67\％

would encourage their child to be involved in science－ based activities outside of school
－Strongly encourage
■ Somewhat encourage
－Neither encourage nor discourage
■ Somewhat discourage
■ Strongly discourage
Don＇t know

CHANGES IN ENCOURAGEMENT OVER TIME


## ENCOURAGEMENT OF ACTIVITIES

Parents aged under 25 are the most likely to actively discourage their children from partaking in extracurricular science-based activities, while parents aged between 25 and 64 are generally more encouraging.


KANTAR PUBLIC

C6. To what extent have you/would you encourage your child/children to be involved in science-based activities outside of school? BASE: Respondents with children (2023 n=539).

## 6 <br> SCIENCE IN THE MEDIA

## AMOUNT OF MEDIA

One in three feel the amount of news they hear about science in the media is adequate，and this has remained stable since 2021．The majority still feel there is not enough information，however this has been softening over the years．

PERCEPTIONS OF MEDIA COVERAGE


CHANGES IN PERCEPTIONS OVER TIME



## AMOUNT OF MEDIA

Those aged between 45 and 54 are the most content with the level of media coverage about science.

|  | PERCEPTIONS OF MEDIA COVERAGE BY DEMOGRAPHICS |  |  |  | Net right |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | TOTAL | 45\% | 4\% | 35\% | 35\% |
|  | Male | 44\% | 6\% | 37\% | 37\% |
|  | Female | 46\% | 3\% | 33\% | 33\% |
|  | 18 to 24 years | 46\% | 3\% | 41\% | 41\% |
|  | 25 to 34 years | 44\% | 6\% | 44\% | 44\% |
|  | 35 to 44 years | 39\% | 5\% | 41\% | 41\% |
| N\\| | 45 to 54 years | 39\% | 3\% | 48\% | 48\% |
|  | 55 to 64 years | 47\% | 3\% | 23\% | 23\% |
|  | 65 to 74 years | 46\% | 5\% | 27\% | 27\% |
|  | $75+$ years | 52\% |  | 31\% | 31\% |
|  |  | Ooo much |  | amount |  |

KANTAR PUBLIC

D2. Which of the following best describes the amount of information or news about science that you currently see or hear through the media or online? BASE: All respondents (2023 n=1,242). Note: 'Don't know’ responses have been hidden from chart.

## AMOUNT OF MEDIA

Those currently working are significantly more likely to feel they are getting the right among of information.

| PERCEPTIONS OF MEDIA COVERAGE BY DEMOGRAPHICS |  |  |  | Net right amount$35 \%$ |
| :---: | :---: | :---: | :---: | :---: |
| TOTAL | 45\% | 4\% | 35\% |  |
| High-school (up to year 12) | 43\% | 6\% | 29\% | 29\% |
| TAFE, Cert or Aprenticeship | 46\% |  | 33\% | 33\% |
| Undergraduate Degree | 52\% |  | 40\% | 40\% |
| Postgraduate Qualification | 38\% | 8\% | 49\% | 49\% |
| Parent | 45\% | 6\% | 37\% | 37\% |
| $\boldsymbol{\lambda}$ ( Not parent | 45\% | $3 \%$ | 33\% | 33\% |
| Currently working | 43\% | 5\% | 43\% | - 43\% |
| Retired | 50\% |  | 28\% | 28\% |
| Not currently working (incl. home dutuies and study) | 47\% | 5\% | 26\% | 26\% |
|  | much | gh | mount |  |

KANTAR PUBLIC

## MEDIA SOURCES

Two in three learn about events in their area via TV, and half via Facebook or other websites. For those who use TikTok and Twitter, over half say they learn about events in their area through these channels.


KANTAR PUBLIC

## MEDIA SOURCES

TV is a more popular source of information about events for those aged 65 and over and retirees.

Social media is more popular for those under 45, First Nations people and those currently working.


KANTAR PUBLIC

## 7 SCIENCE ACTIVITIES \& EVENTS

## UNPROMPTED AWARENESS OF ACTIVITIES

More than a third of Queenslanders could name a science-related event or activity they noticed in their local area in the past 1-2 years.

UNPROMPTED AWARENESS OF ACTIVITIES


LOCAL OBSERVATION POINT
BRISBANE SCIENCE FESTIVAL
LIGHT SHOW SPECTACULAR
DINOSAUR EXHIBIT
NATIONAL YOUTH SCIENCE FORUM
TREE DAY SCHOOL HOLIDAY PROGRAMS
CROWN OF THORNS
SCIENCE SHOW
BARRIER REEF STUDIES AT THE LOCAL MUSEUM COBB AND CO IMAGINARIA
SMART PRECINCT SCIENCE WEEK
SCIENCE WEEK ACTIVITIES
FITZROY BASIN WATER CITIZEN SCIENCE MY LOCAL AREA astrology in the park Willow project star gazing

PROGRAMS FOR CHILDREN ANY SCIENCE EVENTS
SCHOOL SCIENCE FAIR
CANCER TRAILS GREAT BARRIER REEF
the university CYCLONE AWARENESS LOCAL MUSEUM

COASTAL CLEANUP
HIGH SCHOOL SCIENCE
SCIENCE WEEK AT GOMA

KANTAR PUBLIC

## AMOUNT OF SCIENCE EVENTS

Only one in ten feel the amount of science events and activities in their area is adequate. The majority feel there is not enough events/activities available.

PERCEPTIONS OF SCIENCE EVENTS

| $11 \%$ |
| :---: |
| $4 \%$ |
| $51 \%$ |
|  |
|  |
|  |
| $36 \%$ |

11\%
believe there is the right amount of science events/activities available in their area.

■ There is the right amount of events/activities available
There is too many events/activities available

- There is not enough events/activities available
- Don't know


## AMOUNT OF SCIENCE EVENTS

Males and those aged under 45 are significantly more likely to feel they have the right amount of science events and activities in their area. Those in metro locations are less likely to feel there are not enough.


KANTAR PUBLIC

## AMOUNT OF SCIENCE EVENTS

Postgraduates and those currently working are significantly more likely feel they have the right amount of science events and activities in their area.


KANTAR PUBLIC

## PARTICIPATION IN SCIENCE-BASED ACTIVITIES

The most common activity for Queenslanders in the past 12 months has been visiting a zoo/animal park/aquarium. One out of two did this activity, with most of these having gone elsewhere in Queensland to do so. Only a small number of people participated in activities online.

PARTICIPATION IN SCIENCE-BASED ACTIVITIES


KANTAR PUBLIC Queensland? BASE: All respondents (2023 $n=1,242$ ).

## PARTICIPATION IN SCIENCE-BASED ACTIVITIES

Visits to a zoo/animal park/aquarium, museums and guided nature tours/botanic garden visits remain the most popular science-based activities. Participation in National Science Week, online science forums/chats/streams and public lectures/seminars saw decreased participation this year.

PARTICIPATION IN SCIENCE-BASED ACTIVITIES (TOTAL \% PARTICIPATED)


KANTAR PUBLIC

## PARTICIPATION IN SCIENCE-BASED ACTIVITIES

Those aged under 45, parents, tertiary educated and those currently working are consistently more likely to have participated in events and activities.

PARTICIPATION IN SCIENCE-BASED ACTIVITIES (TOTAL \% PARTICIPATED) BY DEMOGRAPHICS

|  | Visit to zoo/animal park/aquarium | Visit to museum | Guided nature tours/ nature play/ visit to botanic gardens | Visit to science centre | Open house tours of science facilities | National Science Week | Online science forums/chats/live streams | Public science lecture/seminar | Participation in science club | World Science Festival |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL | 54\% | 46\% | 41\% | 22\% | 17\% | 13\% | 13\% | 13\% | 10\% | 10\% |
| Male | 53\% | 48\% | 44\% | 21\% | 19\% | 15\% | 16\% | 15\% | 11\% | 12\% |
| Female | 55\% | 44\% | 40\% | 22\% | 16\% | 12\% | 11\% | 11\% | 10\% | 8\% |
| <45 years | - 69\% | - 59\% | - 55\% | - 33\% | - $27 \%$ | - $24 \%$ | - $25 \%$ | - 21\% | - 19\% | - 19\% |
| 45+ years | - 42\% | $\nabla 35 \%$ | - 30\% | -12\% | - 9\% | - 5\% | V 4\% | - 5\% | $\nabla 4 \%$ | - $3 \%$ |
| Parent | - 68\% | - 53\% | 48\% | - 29\% | 21\% | - 19\% | - 20\% | 14\% | - 16\% | -15\% |
| Not parent | - 45\% | - 40\% | 37\% | -16\% | 14\% | - 10\% | - 9\% | 12\% | - 6\% | - $7 \%$ |
| High school or below | 53\% | V $36 \%$ | - $30 \%$ | V 14\% | 13\% | 11\% | 10\% | $\nabla 7 \%$ | $\nabla 6 \%$ | 6\% |
| TAFE, Cert, Appr. | 53\% | 40\% | 38\% | 17\% | 13\% | 9\% | 9\% | V 8\% | 8\% | V 5\% |
| Undergrad degree | 55\% | ( $61 \%$ | - 54\% | - 33\% | - $29 \%$ | 18\% | 20\% | - $21 \%$ | 14\% | 15\% |
| Postgrad degree | 58\% | 59\% | ( 60\% | - 36\% | 20\% | ( $24 \%$ | - $24 \%$ | - $28 \%$ | - 19\% | - $24 \%$ |
| Currently working | -64\% | - 58\% | - 51\% | - 31\% | 21\% | - $20 \%$ | - $20 \%$ | (16\% | (16\% | (15\% |
| Retired | - $38 \%$ | - 32\% | V28\% | $\nabla 10 \%$ | - 10\% | V 3\% | V 2\% | V 5\% | $\nabla 1 \%$ | - 1\% |
| Not working | 60\% | 34\% | 47\% | 17\% | 25\% | 18\% | 20\% | 18\% | 17\% | 15\% |

## INTEREST IN SCIENCE-BASED ACTIVITIES

Interest in science-based activities is moderate, with the highest level of interest being among younger people, parents, and tertiary educated people. Retirees are among the least interested.


KANTAR PUBLIC

## INTEREST IN SCIENCE-BASED ACTIVITIES

Interest in open house tours continues to increase, while interest in science clubs for adults and children, and online portals/web based activities, have reverted to similar levels seen in 2018 following a spike in 2021.
interest in science-based Activities


KANTAR PUBLIC
E3. If they were available, which of the following types of science-based activities or events would you or anyone in you immediate family be interested in participating in or attending? BASE: All respondents (2023 $n=1,242 ; 2021 n=1,219 ; 2018 n=1,228 ; 2016 n=1,200$ ). *New response item in 2023

## AWARENESS OF QUEENSLAND SCIENCE EVENTS

One in two have heard of National Science Week，and one in five have heard of World Science Festival．Awareness of each has remained stable since 2021．Regional and SEQ residents have similar awareness levels of National Science week，but those in the South－East have stronger awareness of World Science Festival．


KANTAR PUBLIC

E5．Before today，which of the following science－based events have you heard of in Queensland？ BASE：All respondents（2023 $n=1,242 ; 2021 n=1,219 ; 2018 n=1,228 ; 2016 n=1,200$ ）．＊New response items in 2023

D Denotes figure is significantly higher or $\nabla$ lower than all other subgroups at $95 \% \mathrm{Cl}$ ーーー・ Dotted line denotes a significant difference between years

## INTEREST IN FUTURE QUEENSLAND SCIENCE EVENTS

One in two say they would be interested in events such as National Science Week in future. While overall interest is at a similar level to 2021, the degree of interest has shifted, with more saying they are 'somewhat interested' rather than 'very interested'.

INTEREST IN FUTURE QUEENSLAND SCIENCE EVENTS


CHANGE IN INTEREST OVER TIME



## INTEREST IN FUTURE QUEENSLAND SCIENCE EVENTS

Interest in attending events like National Science Week is highest among those aged 25 to 34 . Those aged 45 and over tend to be more disinterested in events.

| $\bullet$ DISINTERESTED INTERESTED $\longrightarrow$ |  |  |  |  | Net disinterested (1-2) | Net interested (4-5) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL | 10\% | 10\% | 40\% | 15\% | 19\% | 55\% |
| Male | 9\% | 10\% | 37\% | 15\% | 19\% | 52\% |
| Female | 10\% | 10\% | 43\% | 15\% | 20\% | 58\% |
| 18 to 24 years | 6\% | 10\% | 37\% | 16\% | 16\% | 52\% |
| 25 to 34 years |  | 3\%4\% | 46\% | 29\% | - 7\% | - 75\% |
| 35 to 44 years |  | 4\% \% | 48\% | 16\% | - 7\% | 64\% |
| $\boldsymbol{\\|} \\|$ | 9\% | 15\% | 44\% | 7\% | 24\% | 51\% |
| 55 to 64 years | 20\% | 6\% | 41\% | 6\% | 26\% | 47\% |
| 65 to 74 years | 11\% | 16\% | 32\% |  | 27\% | 47\% |
| 75+ years | \% | 14\% | 40\% |  | 33\% | 42\% |

## INTEREST IN FUTURE QUEENSLAND SCIENCE EVENTS

Tertiary educated people and workers are significantly more interested in events.


KANTAR PUBLIC

## CITIZEN SCIENCE

Almost one in four Queenslanders have heard of Citizen Science，with only 30\％of those having participated，a decline from $44 \%$ in 2021 ，driven by a decline in people participating in their local area（ $17 \%$ in 2023，down from $35 \%$ in 2021）．Awareness，however，has increased slightly since 2021.

Citizen science awareness and participation


## 30\％

of those who have heard of Citizen Science have participated
（Equating to 7\％of Queenslanders）
－Aware unprompted
－Aware prompted
－Not aware
－Don＇t know
$■$ Aware and participated
－Aware and not participated


KANTAR PUBLIC

## CITIZEN SCIENCE

Those aged 25 to 34 years are significantly more likely to have participated in Citizen Science activities.


KANTAR PUBLIC

## CITIZEN SCIENCE

Those with postgraduate qualifications are significantly more likely to have heard of Citizen Science, though only one in four have participated.


KANTAR PUBLIC

## CITIZEN SCIENCE ACTIVITIES

Citizen Science activities tended to involve animal monitoring.

```
        IDENTIFIED BEETLE
                ACTIVITIES
                            WIIDLIFE COUNTRY
        STUDY
PROTECTION FROG IMPACT COUNTING CORAL
            SCHOOL EAGLES FESTIVAL
        PARTICIPATE NATURALIST BACKYARD
            VOLCANO NATURALIST PHOTOS
LENEM
            SCIENCE SEARCHED MARINE KOALA
    CANE TOADS ASSIST SEAGRASS
        FROGS TREE CONSTRUCTION MONITOR
    TURTLE GREAT VOLUNTEERED
    RECORD REEF ROADS PATEGONIA MUSEUM
            PERSONALLY LOCAL
            LARGE EXPLORE IDENTIFICATION
                APP SURVEY MAIN SIGHTINGS
            REPORTING SPECIES
            crocodie MONITORING
```

"It was a bird sighting app, to count the number of birds in our area at the same times of the day for a 7-day period."

> "Reef protection \& monitoring."
"Reporting a large crocodile sighting in an area frequented by families and pets."
"Took photos of a rare bird, took photos of koalas shared online."
"Participated in STEM activities in my area to learn about this topic."
"Look for and identify how many bird species we could see in the immediate area around our home."
"Collected koala droppings for DNA testing; Tree planting; Wildlife monitoring."
"As a teacher we participated in collecting information/data for various projects. I also ran Science week activities and the Science Club. Maths Olympiad was also great."

## 8 <br> SCIENCE IN QUEENSLAND

## UNPROMPTED AWARENESS OF QUEENSLAND SCIENCE

One in five Queenslanders could name a Queensland scientist or scientific discovery. Of these, around half mentioned a discovery. Mentions of scientists and medical / COVID-19 research increased significantly since 2021.


KANTAR PUBLIC
F1. In the spaces provided below, please name any Queensland scientists or scientific discoveries in Queensland that you

## AWARENESS OF CHIEF SCIENTIST

One in seven had heard of Queensland Chief Scientist before. Males, those aged 45 years and over, postgraduates and those located in Darling Downs were significantly more likely to have heard of the Chief Scientist.

## AWARENESS OF CHIEF SCIENTIST

## 16\%

Have heard of Queensland Chief Scientist

- Yes
- No
- Don't know



## DEMOGRAPHIC DIFFERENCES


v 7\% High school
18\% TAFE
18\% Undergrad
-32\% Postgrad


マ 14\% Metro/North/South Coast
$\triangle$ 26\% Darling Downs
20\% Northern/Mackay
21\% Cairns
21\% Fitzroy/Wide Bay/Burnett
19\% Western/Remote Queensland

Denotes figure is significantly higher or lower than all other subgroups at $95 \% \mathrm{Cl}$

DEMOGRAPHICS

## Demographic Data: Location, Age, Gender

Unweighted Data


## Demographic Data: Parental status, Education, ATSI

Unweighted Data


## Demographic Data: Employment Status

Unweighted Data


G5. Are you currently working in a science-related job?
G6. Before retirement, did you work in a science-related
G6. Before retirement, did you work in a science-related job?
G7. Are you currently studying a science-related course? BASE: All respondents (2023 $n=1,242$ )

## Thank you

## Richard Bishop

 richard.bishop@kantar.com $\%$cathy.day@kantar.com

## Katrin Nuss

katrin.nuss@kantar.com

Kantar Public | Level 11, Waterfront Place, 1 Eagle St, Brisbane Qld 4000 | www.kantar.com

## | KANTAR PUBLIC

