

Secondary School Science Questionnaire - Student Post Implementing

Student V5.8

We are interested in what you think about your *experiences* during the *Space to Grow* Project. Specifically, we want your feedback on your thoughts about:

- the way science was taught during this project
- your observation session(s) using the Faulkes Telescopes
- the computer software used, and
- the project website.

What you tell us will be used to improve or modify the Space to Grow Project for students' experiences in the future.

Date Completed: _____ (Please Print)

First & Surname: _____ (Please Print)

I am: Male Female (Mark an 'X' in the box)

Your email address: _____ (Please Print)

Year: 7 8 9 10 11 12 (Please Circle)

School: _____ (Please Print)

Teacher Surname: _____ (Please Print)

Class name (eg 7A, 10E): _____ (Please Print)

How many times have you done this questionnaire?

0 1 2 3 4 5 6 >6 (Please Circle)

Instructions

On the following pages are some questions. ***There are no right or wrong answers*** - we are asking for your *personal* opinion.

Look carefully at the top of each section for instructions on how to choose or write your answer (circle, "X" or writing) as appropriate.

Please read each sentence carefully, then select the most suitable response. If you would like to change your selection, block out the original answer and then clearly complete your revised option.

There is a short answer section at the end – please write your answers in the spaces provided or with an "X" as appropriate.

Please answer these questions as honestly as you can.

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How often did these things happen in your science class during the Space to Grow project?

| 1 My science teacher... | Never | Rarely | Occasion- ally | Most of the time | Nearly every lesson |
|--|-------|--------|-------------------|------------------------|---------------------------|
| told me how to improve my work. | 1 | 2 | 3 | 4 | 5 |
| gave us quizzes that we marked to see how we were going. | 1 | 2 | 3 | 4 | 5 |
| talked to me about how I am getting on in science. | 1 | 2 | 3 | 4 | 5 |
| allowed us to choose our own topics to investigate. | 1 | 2 | 3 | 4 | 5 |

| 2 In my science class I/we ... | Never | Rarely | Occasion- ally | Most of the time | Nearly every lesson |
|---|-------|--------|-------------------|------------------------|---------------------------|
| copied notes the teacher gave me. | 1 | 2 | 3 | 4 | 5 |
| worked out explanations in science on my own. | 1 | 2 | 3 | 4 | 5 |
| worked out explanations in science with friends. | 1 | 2 | 3 | 4 | 5 |
| had opportunities to explain my ideas. | 1 | 2 | 3 | 4 | 5 |
| read a science textbook. | 1 | 2 | 3 | 4 | 5 |
| watched the teacher do an experiment. | 1 | 2 | 3 | 4 | 5 |
| did experiments by following instructions. | 1 | 2 | 3 | 4 | 5 |
| planned and did our own experiments. | 1 | 2 | 3 | 4 | 5 |
| had class discussions. | 1 | 2 | 3 | 4 | 5 |
| learned about scientists and what they do. | 1 | 2 | 3 | 4 | 5 |
| did our work in groups. | 1 | 2 | 3 | 4 | 5 |
| used computers to do our science work. | 1 | 2 | 3 | 4 | 5 |
| looked for information on the Internet at school. | 1 | 2 | 3 | 4 | 5 |
| investigated to see if our ideas were right. | 1 | 2 | 3 | 4 | 5 |

Indicate how often these things happened in your science class during the Space to Grow project by writing an appropriate number in the space provided.

| 3 In my science class we ... | _____ | _____ |
|--|-------|------------------------------|
| did practical work outside the classroom eg in the schoolyard or other outdoor areas, in the library or computer laboratory. | _____ | lesson(s) during the project |
| had excursions related to this area of science | _____ | lesson(s) during the project |
| had visiting speakers who talked to us about this area of science. | _____ | lesson(s) during the project |

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How often were these things true for your science class during the Project?

4 My science teacher...

| | Never | Rarely | Occasionally | Most of the time | Nearly every lesson |
|---|-------|--------|--------------|------------------|---------------------|
| marked our work and gave it back quickly. | 1 | 2 | 3 | 4 | 5 |
| made it clear what we had to do to get good marks. | 1 | 2 | 3 | 4 | 5 |
| used language that was easy to understand. | 1 | 2 | 3 | 4 | 5 |
| took notice of students' ideas. | 1 | 2 | 3 | 4 | 5 |
| showed us how new work related to what we had already done. | 1 | 2 | 3 | 4 | 5 |

5 During science lessons, I...

| | Almost never | Sometimes | Often | Very often | Almost always |
|--|--------------|-----------|-------|------------|---------------|
| got excited about what we did. | 1 | 2 | 3 | 4 | 5 |
| had enough time to think about what we were doing. | 1 | 2 | 3 | 4 | 5 |
| was curious about the science we did. | 1 | 2 | 3 | 4 | 5 |
| was bored. | 1 | 2 | 3 | 4 | 5 |
| didn't understand the science we did. | 1 | 2 | 3 | 4 | 5 |
| found the science too easy. | 1 | 2 | 3 | 4 | 5 |
| found the science challenging. | 1 | 2 | 3 | 4 | 5 |
| thought the science was too hard. | 1 | 2 | 3 | 4 | 5 |

6 The science we learned at school during the project...

| | Almost never | Sometimes | Often | Very often | Almost always |
|--|--------------|-----------|-------|------------|---------------|
| was relevant to my future. | 1 | 2 | 3 | 4 | 5 |
| was useful in every day life. | 1 | 2 | 3 | 4 | 5 |
| dealt with things I am concerned about. | 1 | 2 | 3 | 4 | 5 |
| helped me make decisions about my health. | 1 | 2 | 3 | 4 | 5 |
| helped me understand environmental issues. | 1 | 2 | 3 | 4 | 5 |

7 In these school science lessons we had to ...

| | Almost never | Sometimes | Often | Very often | Almost always |
|---|--------------|-----------|-------|------------|---------------|
| think and ask questions. | 1 | 2 | 3 | 4 | 5 |
| remember lots of facts. | 1 | 2 | 3 | 4 | 5 |
| understand and explain science ideas. | 1 | 2 | 3 | 4 | 5 |
| recognise the science in the world around us. | 1 | 2 | 3 | 4 | 5 |

8 To what extent do you agree with ...?

| | Strongly disagree | Disagree | Sometimes | Agree | Strongly agree |
|---|-------------------|----------|-----------|-------|----------------|
| I enjoyed the science we did during the project <i>in general</i> | 1 | 2 | 3 | 4 | 5 |
| I enjoyed the science we did during the project <i>in this class</i> | 1 | 2 | 3 | 4 | 5 |

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| 9 To what extent did you use or access the following features of the <i>Space to Grow</i> website? | Not at all | Once or twice | Once or twice a week | Daily |
|---|------------|---------------|----------------------|-------|
| The <i>Space to Grow</i> website overall? | 1 | 2 | 3 | 4 |
| The astronomy projects section? | 1 | 2 | 3 | 4 |
| The archive data section? | 1 | 2 | 3 | 4 |
| The useful links page? | 1 | 2 | 3 | 4 |
| The FAQ section? | 1 | 2 | 3 | 4 |
| The software section? | 1 | 2 | 3 | 4 |

| 10 During the <i>Space to Grow</i> project, I accessed the ... | School only | Home only | School + home | Did not access |
|---|-------------|-----------|---------------|----------------|
| <i>Space to Grow</i> website from computer(s) at ... | 1 | 2 | 3 | 4 |
| <i>LCOGT.net</i> website from computer(s) at ... | 1 | 2 | 3 | 4 |

11 What projects did you do? (Please mark an 'X' to all that apply)

- Discovering Telescopes and Deep Sky Objects: Introduction to the Faulkes Telescopes and LCOGT.net
- Understanding the universe through colour: Astronomical imaging with LCOGT.net
- Uncovering the Nature and Lives of Stars: Star Cluster Photometry with LCOGT.net
- Globular Clusters
- Planetary Nebulae
- I did not do any *Space to Grow* project work
- Other (Please specify) _____

To what extent do you agree or disagree with the following statements:

| 12 I.... | Strongly disagree | Disagree | Agree | Strongly agree |
|---|-------------------|----------|-------|----------------|
| enjoyed taking part in the <i>Space to Grow</i> Project. | 1 | 2 | 3 | 4 |
| found the <i>Space to Grow</i> website extremely useful. | 1 | 2 | 3 | 4 |
| enjoyed carrying out <i>Space to Grow</i> Project work. | 1 | 2 | 3 | 4 |
| thought the <i>Space to Grow</i> Project work was boring. | 1 | 2 | 3 | 4 |
| found that obtaining data from the Faulkes/other Telescopes was motivating. | 1 | 2 | 3 | 4 |
| found <i>Space to Grow</i> project work difficult to understand. | 1 | 2 | 3 | 4 |
| found the <i>Space to Grow</i> project work easy to understand. | 1 | 2 | 3 | 4 |
| found the computer software easy to use. | 1 | 2 | 3 | 4 |
| had difficulty in using the computer software. | 1 | 2 | 3 | 4 |
| would recommend this project to other students. | 1 | 2 | 3 | 4 |

Please write answers to these questions below in the spaces provided:

13 What are the things you really *liked* about the *Space to Grow* Project?

14 What are the things that you *did not like* about the *Space to Grow* Project?

15 How could the *Space to Grow* Project be *improved* so that you could learn more?

16 Please describe *anything else* that you think was special or that we might be interested in hearing about concerning your experiences in what happened at school during the *Space to Grow* Project.

17 Based on my experience in the *Space to Grow* Project, I believe the purpose of learning science is to.....

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18 After completing Year 12, I intend to ... (Please mark an 'X' to all that apply)

- | | |
|--|---|
| <input type="checkbox"/> go to university. | <input type="checkbox"/> commence a gap year. |
| <input type="checkbox"/> go to TAFE. | <input type="checkbox"/> commence work. |
| <input type="checkbox"/> undertake an apprenticeship. | <input type="checkbox"/> join the armed forces. |
| <input type="checkbox"/> Other (Please Specify): _____ | |
-

19 If you intend to go to university, what are you thinking of studying?
(Please mark an 'X' to all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Accounting | <input type="checkbox"/> Information Technology |
| <input type="checkbox"/> Actuarial Studies | <input type="checkbox"/> Law |
| <input type="checkbox"/> Architecture | <input type="checkbox"/> Mathematics |
| <input type="checkbox"/> Astronomy | <input type="checkbox"/> Medicine |
| <input type="checkbox"/> Aviation | <input type="checkbox"/> Music |
| <input type="checkbox"/> Business/Commerce/Finance | <input type="checkbox"/> Nursing |
| <input type="checkbox"/> Communication/Journalism/Media | <input type="checkbox"/> Physiotherapy |
| <input type="checkbox"/> Education/Teaching | <input type="checkbox"/> Psychology |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Science |
| <input type="checkbox"/> Health | <input type="checkbox"/> Veterinary Science |
| <input type="checkbox"/> History | |
| <input type="checkbox"/> Not Sure/Do Not Know | |
| <input type="checkbox"/> Other (Please Specify): _____ | |
-



**Thank you for filling in this questionnaire
about your experience in science
during the *Space to Grow* Project!**