

# ***What do YOU think about science?***

**This survey is completely confidential. Your participation is voluntary.**

Gender: \_\_\_ Male \_\_\_ Female    Age: \_\_\_\_\_    Ethnicity: \_\_\_ African American, \_\_\_ Asian, \_\_\_ White,  
\_\_\_ Hispanic or Latino, \_\_\_ Native American, \_\_\_ Pacific Islander, \_\_\_ Other.

**Please indicate whether you Strongly Agree, Agree, are Not Sure, Disagree, Strongly Disagree with each statement by marking the best response.**

Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	1	<b>Money spent on science is well worth spending.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	2	<b>Scientists usually like to go to their laboratories when they have a day off.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	3	<b>I would rather find out why something happens by doing an experiment than by being told how it works.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	4	<b>I find it boring to hear about new ideas.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	5	<b>Science lessons are fun.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	6	<b>I would like to belong to a science club.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	7	<b>I would dislike being a scientist.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	8	<b>Science is man's worst enemy.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	9	<b>Scientists are about as fit and healthy as other people.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	10	<b>Doing experiments does not help me learn as much as finding out information from instructors.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	11	<b>In science experiments, I like to use methods which I have not tried before.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	12	<b>I dislike science lessons.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	13	<b>I get bored watching science programs on TV.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	14	<b>I would like to work with people who make discoveries in science.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	15	<b>Public money spent on science in the last few years has been used wisely.</b>

*Continued on back...*

Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	16	<b>Scientists do not have enough time to spend with their families.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	17	<b>I would rather do experiments than read about them.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	18	<b>I am unwilling to change my ideas even when evidence shows that my ideas are faulty.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	19	<b>School should have more science lessons each week.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	20	<b>I would like to be given a science book or a piece of scientific equipment as a present.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	21	<b>I would dislike a job in a science laboratory.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	22	<b>Scientific discoveries are doing more harm than good.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	23	<b>Scientists like sports as much as other people do.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	24	<b>I would rather agree with other people than do an experiment to find out the information for myself.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	25	<b>In science experiments, I report unexpected results as well as expected ones.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	26	<b>Science lessons bore me.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	27	<b>I dislike reading books about science in my leisure time.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	28	<b>Working in a science laboratory would be an interesting way to earn a living.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	29	<b>The government should spend more money on scientific research.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	30	<b>Scientists are less friendly than other people.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	31	<b>I would rather do my own experiments than find out information from instructors.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	32	<b>I dislike listening to other people's opinions.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	33	<b>Science is one of the most interesting school subjects.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	34	<b>I would like to do science experiments at home.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	35	<b>A career in science would be dull and boring.</b>

# *What do YOU think about science?*

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\_\_\_ Hispanic or Latino, \_\_\_ Native American, \_\_\_ Pacific Islander, \_\_\_ Other.

**Please indicate whether you Strongly Agree, Agree, are Not Sure, Disagree, Strongly Disagree with each statement by marking the best response.**

Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	1	<b>Too many laboratories are being built at the expense of the rest of education.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	2	<b>A scientist can have a normal family life.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	3	<b>I would rather find out about things by asking an expert than by doing an experiment.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	4	<b>I enjoy reading about things which disagree with my previous ideas.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	5	<b>Science lessons are a waste of time.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	6	<b>Talking to friends about science outside of school would be boring.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	7	<b>I would like a career teaching science.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	8	<b>Science helps make life better.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	9	<b>Scientists do not care about their working conditions.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	10	<b>I would rather solve problems by doing an experiment than be told the answer.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	11	<b>I dislike repeating experiments to check that I got the same results.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	12	<b>I enjoy doing science lessons.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	13	<b>I would enjoy having a job in science during my school break.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	14	<b>A job as a scientist would be boring.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	15	<b>This country is spending too much money on science.</b>

*Continued on back...*

Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	16	<b>Scientists are just as interested in art and music as other people are.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	17	<b>It is better to ask teachers the answer than to find it out by doing experiments.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	18	<b>I am curious about the world in which we live.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	19	<b>The material covered in science lessons is uninteresting.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	20	<b>Listening to science reports on the radio is boring.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	21	<b>A job as a scientist would be interesting.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	22	<b>Science can help to make the world a better place in the future.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	23	<b>Few scientists are happily married.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	24	<b>I would rather do an experiment on a topic than read about it in science magazines.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	25	<b>Finding out about new things is unimportant.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	26	<b>I look forward to science lessons.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	27	<b>I enjoy visiting science museums during my leisure time.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	28	<b>I would dislike being a scientist because it requires too much education.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	29	<b>Money used on scientific projects is wasted.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	30	<b>If you met a scientist, he/she would look like anyone else you might meet.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	31	<b>It is better to be told scientific facts than to find them out from experiments.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	32	<b>I like to listen to people whose opinions are different from mine.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	33	<b>I would enjoy school more if there were no science lessons.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	34	<b>I dislike reading newspaper articles about science.</b>
Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree	35	<b>I would like a career as a scientist.</b>

## Pre-Test

### Scale Allocation and Scoring for Each Item

<b>S</b> Social Implications of Science	<b>N</b> Normality of Scientists	<b>I</b> Attitude to Scientific Inquiry	<b>A</b> Adoption of Scientific Attitudes	<b>E</b> Enjoyment of Science Lessons	<b>L</b> Leisure Interest in Science	<b>C</b> Career Interest in Science
01 (+)	02 (-)	03 (+)	04 (-)	05 (+)	06 (+)	07 (-)
08 (-)	09 (+)	10 (-)	11 (+)	12 (-)	13 (-)	14 (+)
15 (+)	16 (-)	17 (+)	18 (-)	19 (+)	20 (+)	21 (-)
22 (-)	23 (+)	24 (-)	25 (+)	26 (-)	27 (-)	28 (+)
29 (+)	30 (-)	31 (+)	32 (-)	33 (+)	34 (+)	35 (-)

For positive items (+), responses SA, A, N, D, SD are scored 5, 4, 3, 2, 1, respectively. For negative items (-), responses SA, A, N, D, SD are scored 1, 2, 3, 4, 5, respectively. Omitted or invalid responses are scored 3.

## Post test

### Scale Allocation and Scoring for Each Item

<b>S</b> Social Implications of Science	<b>N</b> Normality of Scientists	<b>I</b> Attitude to Scientific Inquiry	<b>A</b> Adoption of Scientific Attitudes	<b>E</b> Enjoyment of Science Lessons	<b>L</b> Leisure Interest in Science	<b>C</b> Career Interest in Science
01 (-)	02 (+)	03 (-)	04 (+)	05 (-)	06 (-)	07 (+)
08 (+)	09 (-)	10 (+)	11 (-)	12 (+)	13 (+)	14 (-)
15 (-)	16 (+)	17 (-)	18 (+)	19 (-)	20 (-)	21 (+)
22 (+)	23 (-)	24 (+)	25 (-)	26 (+)	27 (+)	28 (-)
29 (-)	30 (+)	31 (-)	32 (+)	33 (-)	34 (-)	35 (+)

For positive items (+), responses SA, A, N, D, SD are scored 5, 4, 3, 2, 1, respectively. For negative items (-), responses SA, A, N, D, SD are scored 1, 2, 3, 4, 5, respectively. Omitted or invalid responses are scored 3.

Adapted from: Fraser, B. J. (1981). *Test of Science Related Skills*. Australian Council for Educational Research. The Australian Council for Educational Research Limited: Hawthorn, Victoria.