



Stem Study- Parent Survey

STEM stands for Science Technology, Engineering and Mathematics

In this survey, we ask for some information about you and your child. Thank you for taking the time to respond. Your answers will remain confidential.

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Section A: STEM Skills

* 1. Have you ever heard of STEM* skills before?

**STEM stands for Science, Technology, Engineering and Mathematics*

Yes

No

* 2. How important do you think STEM subjects/skills are for your child?

Very important

Moderately Important

Not at all important

Don't Know/No idea

* 3. Do you think that Mathematics should be made compulsory up to HSC or Level 13?

Yes

No

Don't Know/ No idea

* 4. Do you think that the following STEM subjects be made compulsory up to SC or Grade 11?

	Yes	No
Mathematics	<input type="radio"/>	<input type="radio"/>
Biology	<input type="radio"/>	<input type="radio"/>
Physics	<input type="radio"/>	<input type="radio"/>
Chemistry	<input type="radio"/>	<input type="radio"/>
Computer studies	<input type="radio"/>	<input type="radio"/>

* 5. Please rate how important are the following skills for your child:

	Very important	Important	Don't know/ Can't say	Slightly important	Not at all important
i. Flexibility and versatility	<input type="radio"/>				
ii. Analytical skills	<input type="radio"/>				
iii. Problem-solving skills	<input type="radio"/>				
iv. Basic ICT Skills	<input type="radio"/>				
v. Ability to learn	<input type="radio"/>				
vi. Ability to work methodically	<input type="radio"/>				
vii. Accuracy and attention to detail	<input type="radio"/>				
viii. Ability to analyse technical and statistical data	<input type="radio"/>				
ix. Good communication skills (spoken, written)	<input type="radio"/>				
x. Innovative skills	<input type="radio"/>				
xi. Technical skills	<input type="radio"/>				
xii. Creative skills	<input type="radio"/>				
xiii. Customer handling skills	<input type="radio"/>				
xiv. Mathematical skills	<input type="radio"/>				

* 6. We are interested with your views on STEM. Please tell us how far you agree to each of the following statements.

	Strongly Agree	Agree	Don't Know/ Can't say	Disagree	Strongly Disagree
I. I think that learning STEM is important.	<input type="radio"/>				
II. I think STEM is needed to help to solve the problems of today.	<input type="radio"/>				
III. My child loves STEM subjects because the content is exciting and dynamic.	<input type="radio"/>				
IV. I think STEM subjects will help my child to get a high paying job.	<input type="radio"/>				
V. STEM subjects will help my child to get a prestigious job.	<input type="radio"/>				
VI. I encourage my child to do STEM subjects.	<input type="radio"/>				
VII. I believe STEM subjects are mainly for boys.	<input type="radio"/>				

* 7. Statistics show that there are fewer and fewer students opting for STEM subjects at upper secondary level as compared to the other subjects. According to you, what could be the reason(s)? *(Please select a maximum of 5 reasons that you consider most important)*

- STEM subjects are tougher than non-STEM (e.g. arts, economics) side.
- Too much competition (for scholarship)
- STEM subjects do not lead to high paid jobs
- Finding work is more difficult with STEM subjects
- Students do not think STEM subjects are important for their careers.
- Peer pressure
- Students fail to achieve the required grade in STEM subjects
- Influence of parents
- Not encouraged by teachers
- Not encouraged by schools
- Limited combination of subjects available in schools
- Influence of resource persons from other sectors
- No career guidance on STEM related occupations
- Previous students experience

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Section B: About digital technologies and coding skills

* 8. To the best of your knowledge, does your child's school offer classes or units on coding* or programming?
Put simply, Coding is a method of communicating with a computer. It is using a language that a computer understands to give a computer instructions in order to perform specific functions. Coding allows us to create things such as computer software, websites, apps and video games.

Yes No Don't Know

* 9. Is coding important?

Yes No Don't Know

* 10. According to you, as from what level should coding be taught?

* 11. Should coding be introduced as a complementary activity in schools?

Yes No Don't Know

* 12. If your child was given the opportunity to learn coding, how likely is it that s/he would do so?

* 13. How confident are you in your child's abilities to.....?

	Totally confident	Somewhat confident	Not confident at all	Can't say/ No idea
use digital technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
analyse and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
design solutions to problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
carry out experiment & investigations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
learn coding and programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Section D: About Your Child's Future Career

* 19. According to me, a CAREER in STEM for my child (is)

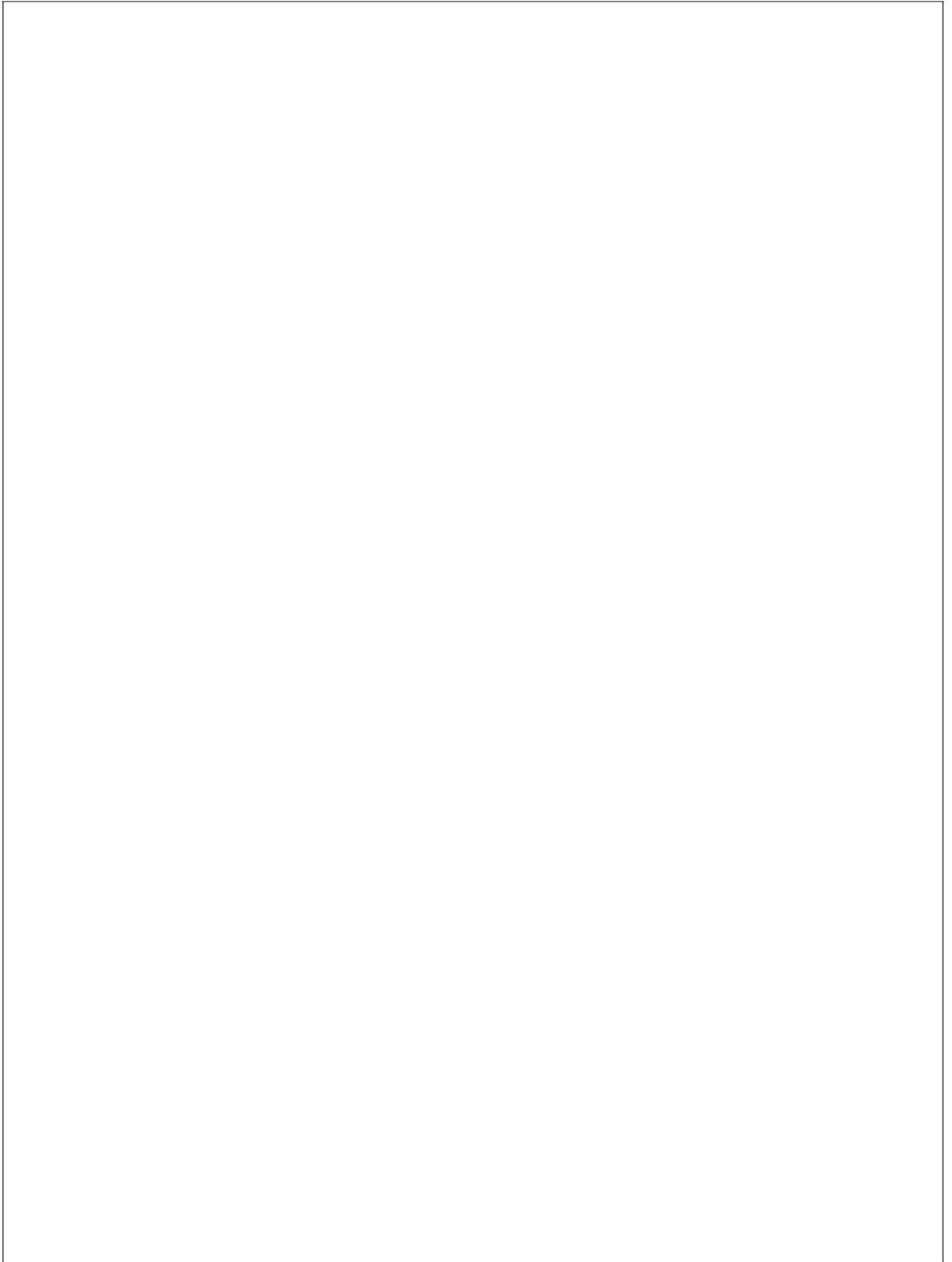
	Strongly Agree	Agree	Somewhat Agree	Neither Agree nor Disagree	Somewhat Disagree	Disagree	Strongly Disagree
Boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exciting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appealing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High paying job	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 20. How far do you agree that to be successful:

	Strongly agree	Agree	Somewhat Agree	Neither Agree nor Disagree	Somewhat Disagree	Disagree	Strongly Disagree
Learning STEM subjects is not necessary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding science is important	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding technology is useful	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding engineering is valuable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding mathematics is trivial	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Learning coding skills is essential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 21. How interested is your child in careers that involve using digital technologies like smartphones, tablets ,computers and online platforms?

22. How important do you think knowing how to program, design and develop digital technologies will be for future careers?



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Section E: About yourself

* 23. What is your relationship to this child?

* 24. Please select your highest level of educational qualification

* 25. In which subject area is your highest qualification **(if studied above Form 3 or Grade 9)**

* 26. What is your current occupation? **(Please choose the primary or more specific one)**

- Manager/Executive
- Technician/Operator
- Professional
- Teacher/Educator
- Sales/Service
- Farming/Fishing
- Homemaker
- Retired
- Unemployed
- Other (please specify)

* 27. What is your **household** income range?

- Less than Rs 10,000
- Rs10,000- less than Rs25,000
- Rs25,000 – less than 50,000
- Rs50,000- less than Rs100,000
- Rs100,000 or above