

## Appendix 1

### Student Questionnaire

This tracer study is a project of the Institute of Advanced Studies, University of Malaya. Our main aim is to improve the educational system, in particular to enable the education authorities to make education more relevant to work. For this purpose we wish to follow your educational and career developments over a period of time. We would appreciate your full cooperation. All information provided will be held in strict confidence.

Please respond by placing a tick [✓] in the appropriate box or filling in the required information.

Name of your school _____ _____	For coding only
<b>1. General Background</b>	
1.1 What is your age? _____ years	
1.2 What is your sex?	
<input type="checkbox"/> Female	
<input type="checkbox"/> Male	
1.3 What is your ethnic origin?	
<input type="checkbox"/> Malay and Other Bumiputera	
<input type="checkbox"/> Chinese	
<input type="checkbox"/> Indian	
<input type="checkbox"/> Other (specify) _____	

1.4 Who is your present guardian?

- ☐ Father  
☐ Mother  
☐ Both Father and Mother  
☐ Other (specify) \_\_\_\_\_

For coding  
only

1.5 How many brothers and sisters do you have?  
(excluding yourself)

Brothers \_\_\_\_\_  
Sisters \_\_\_\_\_

1.6 What is your birth order? (e.g. eldest, second, etc.)

\_\_\_\_\_

1.7 How do you rate the relationship between you and your parents or other guardian?

- ☐ Very good                      ☐ Not good  
☐ Good                              ☐ Not good at all  
☐ Satisfactory

1.8 What is (are) your parents' or other guardian's highest educational attainment?

Level of schooling	Father	Mother	Other guardian
No formal schooling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lower secondary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Upper secondary (including 6th Form)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
College/Polytechnic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
University	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.9 What is (are) your parents' and/or guardian's present occupation?  
[If currently unemployed, retired or deceased, state the occupation in which they were last employed]. Please be specific, e.g. housewife, lawyer, doctor, driver, etc. If 'businessman', state whether 'shopkeeper', 'hawker', 'travelling salesman', etc.

Father \_\_\_\_\_

Mother \_\_\_\_\_

Other guardians \_\_\_\_\_

1.10 In which sector of the economy are your parents or guardian employed? (If currently unemployed, retired or deceased, state the sector in which they were last employed.)

For coding only

Economic sector	Father	Mother	Other guardian
Agriculture, forestry, hunting, fishing	[ ]	[ ]	[ ]
Mining and quarrying	[ ]	[ ]	[ ]
Manufacturing	[ ]	[ ]	[ ]
Construction	[ ]	[ ]	[ ]
Electricity, water, gas or sanitary services	[ ]	[ ]	[ ]
Commerce (wholesale and retail, banking, insurance and real estate)	[ ]	[ ]	[ ]
Transport, storage and communication	[ ]	[ ]	[ ]
Service (civil administration and defense, health, medicine, recreation, entertainment, etc.	[ ]	[ ]	[ ]
Other (if any) _____			

1.11 Indicate the monthly income of your parents or guardians. (If currently unemployed, retired or deceased, state the last monthly income — if any.)

Income	Father	Mother	Other guardian
No income	[ ]	[ ]	[ ]
RM500 and below	[ ]	[ ]	[ ]
RM501 – RM1000	[ ]	[ ]	[ ]
RM1001 – RM1500	[ ]	[ ]	[ ]
RM1501 – RM2000	[ ]	[ ]	[ ]
RM2001 – RM3000	[ ]	[ ]	[ ]
RM3001 – RM4000	[ ]	[ ]	[ ]
RM4001 – RM5000	[ ]	[ ]	[ ]
RM5001 and above	[ ]	[ ]	[ ]

1.12 What is the main source of finance for your education?

- ☐ Scholarship/bursary provided by government or quasi-government agencies
- ☐ Scholarship/bursary provided by other agencies
- ☐ Family resources
- ☐ Loan

<p>1.13 Which of the following best describes the place you grew up?</p> <p><input type="checkbox"/> Rural/kampung/land development scheme</p> <p><input type="checkbox"/> Small town (e.g. Jitra, Kulai)</p> <p><input type="checkbox"/> Large town/city (e.g. Taiping, Kuala Lumpur)</p> <p>1.14 Indicate your degree of agreement or disagreement with the following statements:</p> <table border="0"> <thead> <tr> <th>Generally, .....</th> <th>Agree</th> <th>Disagree</th> </tr> </thead> <tbody> <tr> <td>(a) boys have greater access to educational opportunities</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>(b) both boys and girls have equal access to educational opportunities</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>1.15 Indicate your degree of agreement or disagreement with the following statements:</p> <table border="0"> <thead> <tr> <th>Generally, .....</th> <th>Agree</th> <th>Disagree</th> </tr> </thead> <tbody> <tr> <td>(a) boys have greater access to occupational opportunities</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>(b) both boys and girls have equal access to occupational opportunities</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>2. <i>Educational Information</i></p> <p>2.1 What is your present course of study?</p> <table border="0"> <tr> <td><input type="checkbox"/> Science</td> <td><input type="checkbox"/> Technical</td> </tr> <tr> <td><input type="checkbox"/> Arts</td> <td><input type="checkbox"/> Vocational</td> </tr> <tr> <td><input type="checkbox"/> Arts with Commerce</td> <td></td> </tr> </table> <p>2.2 Give the detailed results of your SRP Examination. Example: Bahasa Malaysia - C6., English - F9 (for both 5th. and 6th. formers)</p> <table border="0"> <tr> <td><input type="checkbox"/> Bahasa Malaysia</td> <td><input type="checkbox"/> History</td> </tr> <tr> <td><input type="checkbox"/> English</td> <td><input type="checkbox"/> Art</td> </tr> <tr> <td><input type="checkbox"/> Integrated Science</td> <td><input type="checkbox"/> Commerce</td> </tr> <tr> <td><input type="checkbox"/> Mathematics</td> <td><input type="checkbox"/> Islamic Studies</td> </tr> <tr> <td><input type="checkbox"/> Geography</td> <td><input type="checkbox"/> Agricultural Science</td> </tr> <tr> <td><input type="checkbox"/> Home Science/Industrial Arts</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Language (Chinese, Tamil, Arabic etc.)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (if any) _____</td> <td></td> </tr> </table> <p>2.3 What aggregate did you obtain for SRP? (for both Fifth Formers and Sixth Formers) <input type="checkbox"/></p>	Generally, .....	Agree	Disagree	(a) boys have greater access to educational opportunities	<input type="checkbox"/>	<input type="checkbox"/>	(b) both boys and girls have equal access to educational opportunities	<input type="checkbox"/>	<input type="checkbox"/>	Generally, .....	Agree	Disagree	(a) boys have greater access to occupational opportunities	<input type="checkbox"/>	<input type="checkbox"/>	(b) both boys and girls have equal access to occupational opportunities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Science	<input type="checkbox"/> Technical	<input type="checkbox"/> Arts	<input type="checkbox"/> Vocational	<input type="checkbox"/> Arts with Commerce		<input type="checkbox"/> Bahasa Malaysia	<input type="checkbox"/> History	<input type="checkbox"/> English	<input type="checkbox"/> Art	<input type="checkbox"/> Integrated Science	<input type="checkbox"/> Commerce	<input type="checkbox"/> Mathematics	<input type="checkbox"/> Islamic Studies	<input type="checkbox"/> Geography	<input type="checkbox"/> Agricultural Science	<input type="checkbox"/> Home Science/Industrial Arts		<input type="checkbox"/> Language (Chinese, Tamil, Arabic etc.)		<input type="checkbox"/> Other (if any) _____		<p>For coding only</p>
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<p>2.4 Give the results of your SPM/SPMV Examination (for Sixth Formers only)</p>	<p>For coding only</p>																								
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<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>																									
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<p>2.6 What was the medium of instruction in the primary school you last attended?</p>																									
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<p>2.8 Why do you attend school? Indicate the degree of importance of the reasons below.</p>																									
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To be educated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					

Reasons	Very Important	Important	Not Important	Not Important at all	For coding only
To secure a good job	[ ]	[ ]	[ ]	[ ]	
To prepare myself for university	[ ]	[ ]	[ ]	[ ]	
To be with friends	[ ]	[ ]	[ ]	[ ]	
Mainly to participate in co-curricular activities	[ ]	[ ]	[ ]	[ ]	
Other (if any)	[ ]	[ ]	[ ]	[ ]	

  

2.9 Are you taking tuition?  
 [ ] Yes [ ] No

2.10 How important is it to your parents/guardian that you do well in your examination?  
 [ ] Very important  
 [ ] Important  
 [ ] Not important  
 [ ] Not important at all

2.11 What is the highest level of education that your parents/guardian expects you to achieve?  
 [ ] Primary  
 [ ] Lower secondary  
 [ ] Upper secondary  
 [ ] College  
 [ ] University

2.12 How often do your parents/guardian check your school work?  
 [ ] Very often  
 [ ] Often  
 [ ] Sometimes  
 [ ] Seldom  
 [ ] Never

2.13 What would your parents/guardian do if you do not achieve good examination results? (Choose one only)  
 [ ] Beat me  
 [ ] Scold me  
 [ ] Restrict my leisure activities  
 [ ] They are not bothered  
 [ ] Discuss with me  
 [ ] Encourage me further  
 [ ] Other (if any) \_\_\_\_\_

2.14 What would your parents/guardian do if you achieve good results?  
(Choose one only)

- ☐ Praise me  
☐ Reward me  
☐ They are not bothered  
☐ Other (if any) \_\_\_\_\_

For coding  
only

2.15 How often do you use a library?

- ☐ Very often  
☐ Often  
☐ Sometimes  
☐ Seldom  
☐ Never

2.16 How often do you read the following?

Items	Every day	At least once a week	At least once a fortnight	At least once a month	Seldom	Never
Newspapers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Magazines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Textbooks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reference books	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other books	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.17 How often do you read in the following languages?

Language medium	Every day	At least once a week	At least once a fortnight	At least once a month	Seldom	Never
Bahasa Malaysia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
English	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chinese	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tamil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.18 How often are you involved in the following activities?

Activities	Very often	Often	Some- times	Seldom	Never
Sports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cultural activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Activities	Very often	Often	Sometimes	Seldom	Never	For coding only
Entertainment and hobbies (t.v., movie, gardening)	[ ]	[ ]	[ ]	[ ]	[ ]	
Help parents in housework	[ ]	[ ]	[ ]	[ ]	[ ]	
<b>2.19 Do you hold any of the following positions in school?</b>						
Position					Yes	No
Prefect					[ ]	[ ]
Class monitor					[ ]	[ ]
Committee member of Society/Club					[ ]	[ ]
Librarian					[ ]	[ ]
Other (if any) _____					[ ]	[ ]
<b>2.20 Why do you undertake sixth form education? Indicate the level of importance of each of the reasons given below. (For Sixth Formers only)</b>						
Reasons	Very Important	Important	Not Important	Not Important at all		
To get necessary qualifications for entry into university	[ ]	[ ]	[ ]	[ ]		
Scholarship/bursary incentives have been given	[ ]	[ ]	[ ]	[ ]		
Desire for more education for its own sake	[ ]	[ ]	[ ]	[ ]		
To enhance employment prospects	[ ]	[ ]	[ ]	[ ]		
To enhance prospects for college-level or other non-university tertiary education	[ ]	[ ]	[ ]	[ ]		
My parents/guardian asked me to do so	[ ]	[ ]	[ ]	[ ]		
Other (if any) _____	[ ]	[ ]	[ ]	[ ]		
<b>21 What do you intend to do after you have completed your fifth/sixth form education?</b>						
[ ] Pursue further education						



- ☐ Work for a while before pursuing further education  
☐ Seek employment (Go to Question 2.24)  
☐ Other (if any) \_\_\_\_\_

For coding  
only

22 If you wish to go for further education, what level of education do you intend to follow?

- ☐ University  
☐ College/Polytechnic  
☐ Sixth Form education

23 What course of study would you like to follow? (Please be specific; example: History, Chemical Engineering, Law, Physics, Economics, Accountancy, etc.)

\_\_\_\_\_

24 Indicate your degree of agreement or disagreement with the following statements:

Statement	Strongly Agree	Agree	Disagree	Strongly Disagree
I feel that teachers are my friends	[ ]	[ ]	[ ]	[ ]
Teachers in this school always seek better ways of teaching and learning	[ ]	[ ]	[ ]	[ ]
This school has adequate facilities	[ ]	[ ]	[ ]	[ ]
Teachers have good communication skill	[ ]	[ ]	[ ]	[ ]
The lessons are presented in an orderly manner	[ ]	[ ]	[ ]	[ ]
Teachers usually encourage students to express their own views	[ ]	[ ]	[ ]	[ ]
My teachers pay personal attention to students who have difficulties in understanding lessons by giving them extra time and help	[ ]	[ ]	[ ]	[ ]
My teachers generally reward good performance	[ ]	[ ]	[ ]	[ ]
Students are given adequate opportunities to develop their special talents	[ ]	[ ]	[ ]	[ ]

Statement	Strongly Agree	Agree	Disagree	Strongly Disagree	For coding only
My teachers expect me to work hard	[ ]	[ ]	[ ]	[ ]	
I like to do well in examinations so that my teachers will be pleased	[ ]	[ ]	[ ]	[ ]	
Examination success is what I aim for throughout my school learning	[ ]	[ ]	[ ]	[ ]	
I continue to study the subjects I like even after the examinations are over	[ ]	[ ]	[ ]	[ ]	
I study very hard in class to compete with my classmates	[ ]	[ ]	[ ]	[ ]	
I do not care very much about doing well in my studies	[ ]	[ ]	[ ]	[ ]	
I do extra reading in the subjects I like	[ ]	[ ]	[ ]	[ ]	
Studying gives me a lot of personal satisfaction	[ ]	[ ]	[ ]	[ ]	
I work very hard in class to please my parents	[ ]	[ ]	[ ]	[ ]	
I like to do well in examinations to improve my job qualification	[ ]	[ ]	[ ]	[ ]	
<b>Career Orientation</b>					
1	If you are able to choose any career you like what would it be? Try to be specific in your answer, e.g. primary school teacher, clerk, hawker, shopkeeper, lawyer.				
<hr/>					
2	You may not be able to obtain the job of your choice. What kind of job do you think you will be able to get upon leaving school? Try to be specific.				
<hr/>					

- 3.3 The factors below may encourage you to work in the rural area. Indicate your degree of importance of each of the factors below.

For coding only

Reasons	Very Important	Important	Not Important	Not Important at all
Financial incentives (in terms of extra allowances)	[ ]	[ ]	[ ]	[ ]
Good promotion opportunities	[ ]	[ ]	[ ]	[ ]
A job of higher responsibility	[ ]	[ ]	[ ]	[ ]
More freedom	[ ]	[ ]	[ ]	[ ]
Other (if any)	[ ]	[ ]	[ ]	[ ]

- 3.4 The factors below may discourage you to work in the rural area. Indicate your degree of importance of each of the factors below.

Reasons	Very Important	Important	Not Important	Not Important at all
No water supply, electricity, etc.	[ ]	[ ]	[ ]	[ ]
Problems in communication	[ ]	[ ]	[ ]	[ ]
Poor working condition	[ ]	[ ]	[ ]	[ ]
Separation from friends and relatives	[ ]	[ ]	[ ]	[ ]
Belief that social life in the rural area is dull	[ ]	[ ]	[ ]	[ ]
No chance to improve myself in my job	[ ]	[ ]	[ ]	[ ]
Slow promotion	[ ]	[ ]	[ ]	[ ]
Family problems	[ ]	[ ]	[ ]	[ ]
Other (if any)	[ ]	[ ]	[ ]	[ ]

3.5 Indicate the degree of importance of the following factors in providing you with job satisfaction.					For coding only
Factors	Very Important	Important	Not Important	Not Important at all	
Interesting work	[ ]	[ ]	[ ]	[ ]	
Using special talents	[ ]	[ ]	[ ]	[ ]	
Creative work	[ ]	[ ]	[ ]	[ ]	
No supervision	[ ]	[ ]	[ ]	[ ]	
Opportunities for further studies	[ ]	[ ]	[ ]	[ ]	
Opportunities for improving competence	[ ]	[ ]	[ ]	[ ]	
Opportunity to be helpful to the community	[ ]	[ ]	[ ]	[ ]	
Work with people	[ ]	[ ]	[ ]	[ ]	
Good income	[ ]	[ ]	[ ]	[ ]	
Opportunity for travel	[ ]	[ ]	[ ]	[ ]	
Supervise others	[ ]	[ ]	[ ]	[ ]	
Secure future	[ ]	[ ]	[ ]	[ ]	
Time for family friends	[ ]	[ ]	[ ]	[ ]	
Using skills learned from schooling	[ ]	[ ]	[ ]	[ ]	
Proximity to working place of spouse	[ ]	[ ]	[ ]	[ ]	
Other (if any)	[ ]	[ ]	[ ]	[ ]	
3.6 Have you received any guidance/counselling on career possibilities?					
[ ] Yes					
[ ] No					
3.7 If 'Yes', where did you get <i>most</i> of the guidance/counselling from? (Please choose one only)					
[ ] Teachers of the school					
[ ] Parents/relatives					
[ ] Guidance and counselling/career teachers					
[ ] Friends/other students					
[ ] General information from books/newspapers, etc.					
[ ] Other (if any) _____					

<p>3.8 The guidance/counselling given was</p> <p><input type="checkbox"/> Very useful</p> <p><input type="checkbox"/> Useful</p> <p><input type="checkbox"/> Not useful</p> <p><input type="checkbox"/> Not useful at all</p> <p>3.9 If you cannot gain admission to a local institution for further studies, are your parents prepared to finance your further education overseas?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>3.10 Full cost incurred by the government per year for each student in each field are as follows:</p> <p>RM16,300 for Medical Science (e.g. Medicine, Dentistry)</p> <p>RM8,300 for Social Science (e.g. Economics, Law)</p> <p>RM9,900 for Applied Science (e.g. Science, Engineering)</p> <p>RM7,200 for Humanities (e.g. Arts)</p> <p>If you gain admission to a local institution would you be prepared to pay the full cost of your education?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	For coding only
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Note: Since we intend to follow your future educational and career developments please provide an address at which you can be contacted.

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Thank you very much

## Appendix 2

### Work Values as Defined by Super (1970)

Work Values	Definition
Altruism	A value associated with work that enables one to contribute to the welfare of others
Aesthetics	A value associated with work that enables one to make beautiful things and to contribute beauty to the world
Creativity	A value associated with work that permits one to invent new things, design new products or develop new ideas.
Intellectual stimulation	A value associated with work that provides the opportunity for independent thinking and for learning how and why things work.
Achievement	A value associated with work that gives one a feeling of accomplishment in doing a job well.
Independence	A value associated with work that permits one to work in his own way, as fast or as slowly as he wishes
Prestige	A value associated with work that gives one standing in the eyes of others and evokes respect.
Management	A value associated with work that permits one to plan and lay out work for other to do.
Economic returns	A value associated with work that pays well and enables one to have things he wants.
Security	A value associated with work that provides one with the certainty of having a job even in hard times.
Surroundings	A value associated with work that is carried out under pleasant conditions.
Supervisory relations	A value associated with work that is carried out under a supervisor who is fair and with whom one can get along
Associates	A value associated with work that brings one in contact with fellow workers whom he likes
Way of life	A value associated with work that permits one to live the kind of life he chooses and to be the type of person he wishes to be
Variety	A value associated with work that provides an opportunity to do different types of jobs

Source: Super (1970)