APPENDIX 1

GUIDELINE DOCUMENT AND INTERIM SYLLABUS FOR GEOGRAPHY FOR GRADES 10, 11 AND 12



DEPARTMENT OF EDUCATION AND CULTURE

FREE STATE

GUIDELINE DOCUMENT

AND

INTERIM SYLLABUS

FOR

GEOGRAPHY

GRADES 10 TO 12

1MPLEMENTATION DATE 1996GRADES 10 TO 12



GEOGRAPHY

GRADES 10 TO 12

1 PRINCIPLES ON WHICH THE SYLLABUS IS BASED

1.1 Nature of Geography

Geography as a subject has many areas of overlap with other subjects, in both the natural and the social fields of study. This syllabus takes into account the essential nature of Geography. It ensures that:

- 1.1.1 The four major traditions in geography are upheld. These are:
 - human-land relationships;
 - the spatial perspective;
 - the regional viewpoint;
 - the earth-science component;
- 1.1.2 a balance is maintained between Physical Geography and Human Geography;
- 1.1.3 provision is made for both the theoretical and the practical aspects of the subject;
- 1.1.4 sufficient flexibility exists to allow for the changing nature of the subject.

1.2 General education of the pupil

Education is concerned with the development of the "whole being", and not merely with imparting knowledge.

- 1.2.1 The most important aims, in the long term, are for pupils to:
 - acquire and develop intellectual skills and abilities which will promote ongoing education;
 - adjust to a society that is undergoing rapid and far-reaching social, economic



and political changes;

- enter the world-of-work that is becoming increasingly more technologically orientated;
- develop their moral and emotional (affective) attributes.
- 1.2.2 The teaching of Geography should be neither specifically vocationally orientated nor entirely university orientated. The syllabus should provide for two groups of pupils:
 - those who will receive no further instruction in the subject; and
 - those who will continue with the study of Geography at a tertiary level.
- 1.2.3 Although the syllabus is divided into a Junior Secondary Phase and a Senior Secondary Phase, the two phases must be related and must allow for the progressive development of geographical knowledge, skills and attitudes.

2 OBJECTIVES

- In lesson preparation teachers should bear in mind the higher abilities of comprehension, analysis, application, synthesis and evaluation.
- This subject should be taught in such a way that pupils develop an eagerness for further study and individual inquiry.
- Teachers should we aware of the contribution Geography is making to the general education of the pupil. It is this awareness that gives direction to day-to-day teaching.
- Objectives should be meaningful to pupils and teachers alike, and must constitute both realistic and achievable targets.
- The type and number of short-term objectives in Geography are numerous: those selected for a lesson should be closely correlated with the nature of the subject matter and the resources available to the teacher.

Objectives can be classified into four main categories:

2.1 Knowledge

- 2.1.1 Pupils should acquire a fundamental body of knowledge which is meaningful and useful to them and which can be applied and reproduced in whatever form is required.
- 2.1.2 Pupils should recognise the unity of knowledge through the links that Geography has with other subjects.

2.2 Skills

- 2.2.1 No list of skills can be complete. The following should, however, be kept in mind:
 - The importance attached to different skills should be related to the abilities and maturity of the pupils.
 - The development of skills should enable pupils to deal with knowledge in an organised manner.
 - Pupils should gain proficiency in the use of skills through repetition and the application of these skills to new situations.
- 2.2.2 Geography can make particular contribution to the following skills:
 - Oracy and literacy: thinking logically, writing concisely, speaking with assurance and accuracy;
 - Numeracy: introduce with simple statistical methods, graphs and tables;
 - Graphicacy: the ability to draw, read and interpret;
 - Interpretation : of pictures, photographs, statistics and maps;
 - Fieldwork techniques: using either the traditional (survey) or the scientific approach.

2.3 PERCEPTION

The way in which the environment is "perceived" in reaction to the "actual"

environment influences the pupil's concept of space (spatital conceptualization).

- 2.3.1 In order to heighten the pupils' perception of their environment, it is necessary for them to:
 - recognise the relationships that exist between people and their environment;
 - identify spatial patterns, spatial relationships and interaction. (This is closely linked with an understanding of location, distance and accessibility);
 - be aware of the underlying processes which act upon spatial patterns and relationships and which bring about change;
 - be aware of the world's place-to-place variety; to recognise the uniqueness of place.
- 2.3.2 Many studies require pupils to examine the spatial aspects of social and economic problems. Such studies provide opportunities for pupils to respond to problem solving and decision-making situations through critical divergent and creative thinking.

2.4 APPRAISAL

- 2.4.1 Studies in Geography should promote the formation and reinforcement of positive attitudes and values.
 - This is an affective objective, because without appealing to the emotions and without sufficient motivation, learning seldom takes place.
- 2.4.2 Pupils need to develop a social awareness. This means that they are expected to:
 - recognise the interdependence of people;
 - acquire a tolerant attitudes towards others with different social, economic and political circumstances.
- 2.4.3 Pupils need to develop an environmental awareness. They need to feel a commitment towards the environment by development a "caring attitude". This

means they are expected to:

- recognise the need for conservation;
- understand that the balance of nature is largely dependent on peoples' wise management of their environment.

They should be aware of how people use/abuse their environment, particularly the resources available to them; the options and constraints that are placed on their actions.

Realise that quality of life is influenced by the aesthetic aspects of peoples' environment as well as by an appreciation of the grandeur and wonder of creation.

3 TEACHING GUIDELINES

3.1 Teaching approaches

Teachers should make every effort to create effective learning experiences for their pupils. Whatever teaching approach is used, it is essential to develop a sense of reality in the teaching situation.

3.1.1 The holistic of global approach

- It is particularly important that the components of the syllabus are viewed as parts of a whole and not as isolated compartments of knowledge.
- The divisions of the syllabus should merely be regarded as a convenient means of grouping the characteristics of the individual components.
- Wherever possible, the relationship and interaction between components should be stressed.

3.1.2 The descriptive versus the problem-solving approach

Although there is still room for some of the descriptive techniques of traditional Geography, emphasis should be given to a more problemorientated skills-based approach.

Pupils should gain insight into the process of decision-making by participating in exercises such as simulation and games.

3.1.3 The systems approach

- It is recommended that teachers introduce the concept of systems into their teaching.
- Pupils should be aware that Geography encompasses the study of a very complex human-environmental ecosystem. This complex system is broken down into a number of sub-systems to facilitate its study.
- Several components of the syllabus could be taught as sub-systems such as those associated with weather, drainage and urban sub-systems.

3.1.4 The inter-disciplinary approach

- Concepts studies in Geography may overlap with those of other subjects such as Biology, Science and Economics.
- Interdisciplinary studies should form part of the broad teaching strategy. This will enhance the value of both the learning content and the learning objectives.

3.1.5 The scientific approach

Pupils should be trained in the scientific method of inquiry (statement of hypothesis, followed by the collection and classification of information, and finally the testing of the hypothesis).

3.2 Teaching techniques

It is recommended that, where appropriate, teachers should:

- 3.2.1 Integrate the reading and analysis of photographs, statistics and maps with the relevant sections of the syllabus. This includes:
 - photographs: vertical, oblique and horizontal (i.e. aerial and ordinary);

- statistics: appropriate statistical geographical data;
- maps: such as wall, atlas, topographic maps of Southern Africa (particularly the 1:50 000 SA series) and municipal maps of the local area.
- 3.2.2 Ensure the pupils become competent in the use of various measuring instruments and other apparatus.
- 3.2.3 Make use of diagrammatic representation of statistics. For example, climatic figures, economic data and population characteristics can be illustrated by means of line graphs, columns, rectangles, circle segments, dots, colour, pictorial diagrams and isolines.
- 3.2.4 Introduce quantitative techniques such as means, deviations (range), simple correlations, scattergrams, regression lines and probabilities. Emphasis should be on understanding what the different techniques reflect. Complicated calculations and constructions are not required.
- 3.2.5 Refer to models. These include:
 - Theoretical models (such as urban and economic models) which need to be tested against the real world. These enable Geography to be studies by means of a more problem-orientated approach.
 - Physical models (such as globes, tellurions, papermaché and sand-tray models) which provide effective representations of the real world.
- 3.2.6 Undertake well-planned and meaningful fieldwork:
 - This includes observation and measurement in the filed and the recording and processing of data; the interpretation of written and graphic information.
- 3.2.7 Encourage individual and group research techniques:
 - Pupil involvement, independent activity, initiative, creativity and independence should constantly be extended.



- Pupils should learn to rely on personal observation in the field (primary source) and to make use of secondary sources such as reference books, maps, photographs and diagrams, films, tapes and slides, as well as television, the ratio and the press.
- Pupils need to develop worthwhile, attitudes towards learning such as respect for evidence, a critical appraisal of reporting, a suspicion of simplistic explanations and a willingness to engage in rational discussion.
- Pupils need to distinguish between central issues of importance and peripheral issues.

NOTE: Pupils should undertake short, independent study topics throughout the year on work related to the requirements of the syllabus.

3.3 Differentiation

- 3.3.1 Teachers should not expect the same amount and quality of work from all pupils. Differences in ability must be taken into account. However,
 - Layout of paper for the Higher Grade and the Standard Grade:

SECTION A: PHYSICAL GEOGRAPHY

TWO questions set, at least ONE must be answered.

SECTION B: SETTLEMENT GEOGRAPHY

TWO questions set, at least ONE must be answered.

SECTION C: REGIONAL GEOGRAPHY

THREE questions set, at least ONE must be answered

- COMBINED questions may be set in each section; for example, a question in Section A may comprise the Geomorphology, Ecology and Climatology components.
- HIGHER GRADE questions may either be SYSTEMATIC or of the COMPOSITE variety. A composite question in one section (e.g. Section A) may 'include aspects from one of both the other two sections (B and/or C), provided the marks allocated to aspects from other sections do not exceed



25 % of the total marks for the question.

- STANDARD GRADE emphasis should be on the SYSTEMATIC type of questions
- 4.4 Differentiation between Higher Grade and Standard Grade, for both internal and external papers, should be achieved through the type of questions set and on their mark allocation.



APPENDIX 2

GRADE 12 GEOGRAPHY LEARNERS'
PERFORMANCE
IN 1998 AND 1999 EXAMINATIONS
IN THE
FREE STATE PROVINCE



FREE STATE PROVINCIAL GOVERNMENT

Education

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Enquiries

Reference no.

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LEARNERS' PERFORMANCE IN GEOGRAPHY

1. This office regrets to inform you that the only statistics we are able to supply you with are those for 1998 and 1999. If this office obtains earlier information, it will be provided to you.

YEAR	1998	1998	1999	1999
GRADE	HG	SG	HG	SG
% FAIL	49.64	48.7	70.91	55.38
% PASS	50.36	51.3	29.09	44.62

2. Hoping that you will find the information in order

Yours sincerely

HEAD: EDUCATION

DATE -



APPENDIX 3

GEOGRAPHY TEACHER QUESTIONNAIRE





RESEARCH ON THE APPLICATION OF SCIENCE PROCESS SKILLS

Dear geography teacher

I am a PhD research student enrolled at the University of Pretoria. I am involved in a project which is attempting to describe and explain the application of Science Process Skills to the teaching of geography at secondary schools in the Free State Province. Science Process Skills are activities that scientists like geographers do when they study and investigate problems. As such, the project will provide useful information which could be of a supportive nature to geography teachers in general and outcomes-based education in particular.

Attached is a questionnaire which attempts to gain information on inquiry teaching methods applied to geography teaching and learning. Inquiry teaching methods are teaching processes which contribute to learning processes involving the investigation of a question, a problem or an issue, in which the interrelationship between people and their environment is studied. This study assumes that the adoption of inquiry teaching and inquiry learning is likely to lead to the application of Science Process Skills to the teaching of geography. These skills may develop critical understanding of issues and the ability to solve problems.

The survey has the approval of Free State Education Department. The researcher will be grateful for your response and wishes to ensure that your response will remain completely confidential and anonymous.

Kindly answer by circling the appropriate number in the shaded area or write your answer in the shaded block provided.

For Example: 1 What is your gender?

Male	1
Female	2

After completing the questionnaire use the provided envelope to return it to me not later than 23 March 2000.

Thank you for your co-operation.

Mr Awelani Rambuda Student

Prof WJ Fraser Promoter



GEOGRAPHY TEACHER QUESTIONNAIRE

	FOR OFFFICIAL USE ONLY	FOR OFFICE USE ONLY
	1 Questionnaire Type	V1 1 1
	2 Respondent Number	V112-4
	3 Card Number 1	V3 1 5
	4 Education District	V46-7
PART C	DNE: PERSONAL DATA	
5 Wha	at is your gender?	
Male Fem		V5 8
6 Did	you take geography as a school subject to matric?	
Yes No	1 2	V69
7 Did	you specialise in geography at tertiary level?	
Yes No	1 2	V710
PART T	WO: EXPERIENCE IN THE TEACHING OF GEOGRAPHY	(
8 How	many years of teaching experience do you have?	
		V811-12
	at is the highest grade do you teach geography? k ONE category only].	
	de 8 1	V913
	de 9 2 2 de 10 3	V10 14 V11 15
	de 11 4	V12 16
	de 12 5	V13 17
Othe	er (Please Specify)	V1418-19



10 How long have you been teaching geography at school level?	
Less than 5 years 1	V15 20
5 years and over 2	
11 Were you interested in teaching geography, on appointment at your present school?	
Yes 1 No 2	V1621
12 Do you find geography easy to teach?	
Yes 1 No 2	V1722
PART THREE: SCHOOL DETAILS	
13 What is the location of your school? (Choose one only)	
Rural 1	V1823
Urban 2	
14 Which one of the following would classify your school?	
Public 1 Independent 2 Farm 3	V1924
Church/Missionary 4	
Mine 5 Other (Please Specify)	
PART FOUR: INQUIRY TEACHING METHOD	
In the shaded areas below indicate the degree to which you	
do as described in the statement. Please respond by making	
a cross (X) over the number in the appropriate shaded block.	
15 I focus on lessons involving exploration of important problems that can be investigated at many levels of difficulty.	
Never 1 Sometimes 2 Often 3 Always 4	V2025
16 I use learning materials that stimulate learners' interest.	
Never 1 Sometimes 2 Often 3 Always 4	V21 26



17	I mak	e availa	able many diffe	rent le	earning reso	ources for	learners'	use.	
Nev	er	1	Sometimes	2	Often	3	Always	4	V2227
18	My les skills.	sons p	resent some p	roblem	s that deve	elop learne	ers' thinkin	g	
Nev	er	1	Sometimes	2	Often	3	Always	4	V23 28
19	When	ı I teacl	h, the learners	talk m	ore than I o	do.			
Nev	er	1	Sometimes	2	Often	3	Always	4	V24 29
20	Learn	ers are	free to discus	s their	ideas in cla	ass.			
Nev	er	1	Sometimes	2	Often	3	Always	4	V25 30
21	Whe	n I talk,	l "question, l d	do not	"tell".				
Nev	er	1	Sometimes	2	Often	3	Always	4	V26 31
22	I con	sciousl	y use the ideas	s my le	arners' hav	e raised in	n class.		
Nev	er	1	Sometimes	2	Often	3	Always	4	V27 32
23			rners' question ged to arrive at				rs		
Nev	/er	1	Sometimes	2	Often	3	Always	4	V2833
24	l cons	ciously	base my ques	tions o	n learners'	ideas in c	lass.		
Nev	/er	1	Sometimes	2	Often	3	Always	4	V2934
25	Learn	ers are	free to interch	ange t	heir ideas i	n class.			
Nev	/er	1	Sometimes	2	Often	3	Always	4	V30 35
26		-	the learners to being discusse		ate if their a	rguments	are releva	anț	
Nev	/er	1	Sometimes	2	Often	3	Always	4	V3136
27	My lea	rners g	ain understand	ling in	science pr	ocess skill	S.		
Nev	/er	1	Sometimes	2	Often	[3]	Always	4	V3237



28 I encourage learners to investigate geographical problems.	
Never 1 Sometimes 2 Often 3 Always 4	V3338
29 I emphasize learning, rather than classroom discipline when learners are engaged in groupwork activities.	
Never 1 Sometimes 2 Often 3 Always 4	V34 39
30 Class discussions are conducted in an orderly fashion that emphasizes courtesy and willingness to listen to each person's ideas.	
Never 1 Sometimes 2 Often 3 Always 4	V35 40
31 My learners gain practice in scientific process of acquiring knowledge	
Never 1 Sometimes 2 Often 3 Always 4	V3641
32 I reward the free exchange of ideas in class.	
Never 1 Sometimes 2 Often 3 Always 4	V37 42
33 I allow learners to move freely in the classroom while they are engaged in groupwork activities.	
Never 1 Sometimes 2 Often 3 Always 4	V3843
34 I encourage the testing of ideas in class.	
Never 1 Sometimes 2 Often 3 Always 4	V3944
35 I avoid criticising ideas offered by learners in class.	
Never 1 Sometimes 2 Often 3 Always 4	V4045
36 Each learner's contribution is considered important in class.	
Never 1 Sometimes 2 Often 3 Always 4	V4146
37 I evaluate learners on growth in many aspects of the learning experience, rather than simply on the basis of facts required.	
Never 1 Sometimes 2 Often 3 Always 4	V4247
38 All geographical topics are critically examined, not " taught" as closed issues with a single "correct" solution.	
Never 1 Sometimes 2 Often 3 Always 4	V43 48



39 Use of unfounded, emotionally charged language is minimized in guided didactic conversations.	
Never 1 Sometimes 2 Often 3 Always 4	V44 49
40 I emphasize that values are permissable areas for discussion.	
Never 1 Sometimes 2 Often 3 Always 4	V4550
41 I allow for maximum learner use of learning materials.	
Never 1 Sometimes 2 Often 3 Always 4	V4651
42 I play a low-key role in directing the learning experience of my learners	
Never 1 Sometimes 2 Often 3 Always 4	V4752
43 What difficulties do you experience when developing inquiry teaching?	
	V48 53 V49 54 V50 55 V51 56
	V5257
44 State how these difficulties can be solved.	
	V53 58 V54 59 V55 60 V56 61 V57 62
45 What difficulties do your learners experience when they are involved in inquiry learning?	
	V58 63 V59 64 V60 65 V61 66 V62 67



46 State how these difficulties can be solved.	
	V63 68 V64 69 V65 70 V66 71 V67 72
PART FIVE: SCIENCE PROCESS SKILLS	
A: Basic Science Process Skills applied to the teaching of geography. Please respond to the following statements by making a cross (X) over the number in the appropriate shaded block.	
47 I give my learners many opportunities to identify geographical important problems.	
Never 1 Sometimes 2 Often 3 Always 4	V68 73
48 I organize classroom activities in which learners classify the observed geographical features.	
Never 1 Sometimes 2 Often 3 Always 4	V6974
49 I encourage learners to use any means to communicate learned information, i.e. to draw maps, charts, symbols, graphs and diagrams to communicate the information.	
Never 1 Sometimes 2 Often 3 Always 4	V7075
I link the work in geography on diagrams to the everyday life of the learners, i.e. getting learners to bring examples from newspapers and magazines for discussion in class.	
Never 1 Sometimes 2 Often 3 Always 4	V7176
I organize activities in which my learners compare objects using standardized units of measure and suitable measuring instruments.	
Never 1 Sometimes 2 Often 3 Always 4	V7277
I organize my learners to observe geographical phenomena, such as the maximum and minimum air temperatures, wind direction and speed, atmospheric pressure, relative humidity, amount and type of rainfall.	
Never 1 Sometimes 2 Often 3 Always 4	V73 78



	ncourage my learners to predict future ge sed upon their observations.	ographical events	
Never	1 Sometimes 2 Often	3 Always 4	V7479
	ncourage learners to use various forms of rrectness of geographical theory.	data to determine the	
Never	1 Sometimes 2 Often	3 Always 4	V75 80
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	55 Questionnaire Type		V76 1 1
	56 Respondent Number		V772-4
	57 Card Number 2		V78 2 5
	58 Education District		V79 6-7
	ncourage my learners to describe a geographical features.	raphical feature's position	
Never	1 Sometimes 2 Often	3 Always 4	V8011
	ive my learners many opportunities to obs portant problems.	erve geographical	
Never	1 Sometimes 2 Often	3 Always 4	V819
	ncourage learners to use any means to co restigated information.	ommunicate	
Never	1 Sometimes 2 Often	3 Always 4	V82 10
16			



62 I link the work in geography on graphs to the everyday life of the learners, i.e. getting learners to bring examples from newspapers and magazines for discussion in class.	
Never 1 Sometimes 2 Often 3 Always 4	V8311
63 I organize activities in which my learners arrange geographical features in logical order according to their structures.	
Never 1 Sometimes 2 Often 3 Always 4	V84 12
B: Integrated Science Process Skills applied to the teaching of geography. Please respond to the following statements by making a cross (X) over the number in the appropriate shaded block.	
64 I encourage learners to identify variables that affect geographical phenomena, e.g. how variables such as air temperature, air pressure, humidity and cloud cover influence the occurrence of rainfall.	
Never 1 Sometimes 2 Often 3 Always 4	V85 13
65 I devise exercises in which my learners have to construct tables of data.	
Never 1 Sometimes 2 Often 3 Always 4	V8614
66 I devise exercises in which learners have to construct graphs.	
Never 1 Sometimes 2 Often 3 Always 4	V8715
67 I devise exercises in which my learners conduct investigations.	
Never 1 Sometimes 2 Often 3 Always 4	V8816
68 I devise exercises in which my learners identify the variables under study.	
Never 1 Sometimes 2 Often 3 Always 4	V8917
69 I give my learners geographical problems in which they are encouraged to construct hypotheses. (A hypothesis is a tentative answer to a problem).	
Never 1 Sometimes 2 Often 3 Always 4	V9018



70 I give exercises in which my learners define geographical features by using observable characteristics of the features.	
Never 1 Sometimes 2 Often 3 Always 4	V9119
71 I give my learners hypotheses and request them to design investigations to test the given hypotheses.	
Never 1 Sometimes 2 Often 3 Always 4	V9220
72 I devise exercises in which learners have to describe the relationship between variables on a graph.	
Never 1 Sometimes 2 Often 3 Always 4	V9321
73 State problems which you experience when applying Science Process Skills to the teaching of geography.	
	V94 22 V95 23 V96 24 V97 25 V98 26
74 State how these problems can be solved.	
	V99 27 V100 28 V101 29 V102 30 V103 31
THANK YOU FOR YOUR CO-OPERATION	
If you have any queries regarding this study, please contact the researcher:	
Mr Awelani Rambuda P.O. Box 1881 WELKOM 9460	
(057) 396 4112 X267 (W)	Name and other are as
e-mail address: RMBDA-AM@ 082 491 8014	weasel.vista.ac.za



APPENDIX 4

GEOGRAPHY LEARNER QUESTIONNAIRE





RESEARCH ON THE APPLICATION OF SCIENCE PROCESS SKILLS

Dear geography learner

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The survey has the approval of Free State Education Department. The researcher will be grateful for your response and wishes to ensure that your response will remain completely confidential and anonymous.

Kindly answer by circling the appropriate number in the shaded area or write your answer in the shaded block provided.

For Example: 1 What is your gender?

Male	1
Female	2

After completing the questionnaire hand it to your geography teacher who will then return it to me by 23 March 2000.

Thank you for your co-operation.

Mr Awelani Rambuda Student

Prof WJ Fraser Promoter



GEOGRAPHY LEARNER QUESTIONNAIRE

FOR OFFFICIAL USE ONLY	FOR OFFICE USE ONLY
1 Questionnaire Type	V121
2 Respondent Number	V22-5
3 Card Number	V3 1 6
4 Education District	V4 7-8
PART ONE: PERSONAL DATA	
5 What is your gender?	
Male 1 Female 2	V5 9
6 What is your age in completed years?	
	V610-11
7 Indicate your present grade. (Choose ONE category only)	
Grade 8 1 Grade 9 2 Grade 10 3 Grade 11 4 Grade 12 5	V7 12
8 Do you find geography easy to learn?	
Yes 1 No 2	V813
PART TWO: SCHOOL DETAILS	
9 What is the location of your school? (Choose ONE category only) Rural	V9 14
Urban 2	



10 Which one of the following would classify your school best?	
Public 1	V10 15-16
Independent 2	V 10 15-10
Farm 3	
Church/Missionary 4	
Mine 5	
Other (Please Specify)	Value Time
PART THREE: INQUIRY TEACHING METHOD	*
In the shaded areas below indicate the degree to which you	
agree or disagree with the statement. Please respond by making a cross (X) over the number in the appropriate shaded block.	
cross (A) over the number in the appropriate shaded block.	
11 My geography teacher focuses on lessons involving the exploration	
of important problems that can be investigated at many levels of	
difficulty.	
Strongly 1 Disagree 2 Agree 3 Strongly 4	V1117
Disagree	
12 My geography teacher uses learning materials that stimulate my interest.	
Strongly 1 Disagree 2 Agree 3 Strongly 4	V12 18
Disagree Agree	V 12 10
13 My geography teacher makes available many different learning resources for my use.	
Ctrongly del Discorce C Agree C Ctrongly del	V13 19
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V 13 19
Disagree	
14 My geography teacher's lessons present some problems that develop my thinking skills.	
),,,, []oo
Strongly 1 Disagree 2 Agree 3 Strongly 4	V1420
Disagree	*
When the lesson is in progress, I talk more than my geography teacher.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V1521
[Agree]	



16 I am free to discuss my ideas with other learners in class. Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V1622
17 When my geography teacher talks, (s)he "questions", (s)he does not "tell".	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V1723
18 My geography teacher consciously uses ideas I have raised in class.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V1824
19 My geography teacher redirects my questions in such a way that I am encouraged to arrive at my own answers.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V1925
20 My geography teacher consciously bases his/her questions on my ideas in class.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V2026
21 I am free to interchange my ideas with other learners in class.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V2127
22 My geography teacher encourages us to evaluate if our arguments are relevant to the ideas being discussed.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 . Agree	V2228
23 I gain understanding in the usage of science process skills.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V2329



24	My geography teacher encourages us to investigate geographical phenomena.	
	Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V24 30
25	My geography teacher emphasizes learning, rather than classroom discipline when we are engaged in groupwork activities.	VOR 6_3/2
	Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V2531
26	Class discussions are conducted in an orderly fashion that emphasize courtesy and willingness to listen to each person's ideas.	es
	Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V2632
27	I gain practice in scientific processes of acquiring knowledge.	
	Strongly 1 Disagree 2 Agree 3 Strongly Agree	V2733
28	My geography teacher rewards free exchange of ideas in class.	
	Strongly 1 Disagree 2 Agree 3 Strongly Agree	V2834
29	My geography teacher allows us to move freely in the classroom while we are engaged in groupwork activities.	
	Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V2935
30	My geography teacher encourages the testing of ideas in class.	
	Strongly 1 Disagree 2 Agree 3 Strongly Agree	V3036
31	My geography teacher avoids criticising ideas offered by us in class.	
	Strongly 1 Disagree 2 Agree 3 Strongly Agree	V3137



32 Our contributions in discussions are considered important in class.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V3238
33 My geography teacher evaluates us on growth in many aspects of the learning experience, rather than simply on the basis of facts required.	Van Land
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V3339
34 All geographical topics are critically examined, not "taught as closed issues with a single "correct" solution.	
Strongly 1 Disagree 2 Agree 3 Strongly Agree	V3440
35 Use of unfounded, emotionally charged language is minimized in guided didactic conversations.	
Strongly 1 Disagree 2 Agree 3 Strongly Agree	V3541
36 My geography teacher emphasizes that values are permissable areas for discussion.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V3642
37 My geography teacher allows for my maximum use of learning materials.	
Strongly 1 Disagree 2 Agree 3 Strongly Agree	V3743
38 My geography teacher plays a low-key role in directing my learning experience.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V3844



39 What problems does your geography teacher experience when (s)he develops inquiry teaching?	
	V39 45 V40 46 V41 47 V42 48 V43 49
40 State how these difficulties can be solved.	
	V44 50 V45 51 V46 52 V47 53 V48 54
41 What problems do you experience when you are involved in inquiry learning?	
	V49 55 V50 56 V51 57 V52 58 V53 59
42 State how these problems can be solved.	
	V54 60 V55 61 V56 62 V57 63 V58 64
PART FOUR: SCIENCE PROCESS SKILLS	
A: Basic Science Process Skills applied to the teaching of geography. Please respond to the following statements by making a cross (X) over the number in the appropriate shaded block.	
43 My geography teacher gives us many opportunities to identify geographical important problems.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V5965



44 My geography teacher organizes classroom activities in which we classify the observed geographical features.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6066
45 My geography teacher encourages us to use any means to communicate learned information, i.e. to draw maps, charts, symbols, graphs, and diagrams to communicate the information.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	.V6167
46 My geography teacher links the work in geography on diagrams to our everyday life, i.e. getting us to bring examples from newspapers and magazines for discussion in class.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6268
47 My geography teacher organizes activities in which we compare objects using standardized units of measure and suitable measuring instruments.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6369
48 My geography teacher organizes us to observe geographical phenomena such as the maximum and minimum air temperatures, wind direction and speed, atmospheric pressure, relative humidity, amount and type of rainfall.	
Strongly Disagree 2 Agree 3 Strongly Agree	V6470
49 My geography teacher encourages us to predict future geographical events based upon our observations.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6571
50 My geography teacher encourages us to use various forms of information to determine the correctness of a geographical theory.	
Strongly 1 Agree 2 Disagree 3 Strongly 4 Disagree	V6672



51 My geography teacher encourages us to describe a geographical feature's position in relation to other geographical features.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6773
52 My geography teacher gives us many opportunities to observe geographical important problems.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6874
53 My geography teacher encourages us to use any means to communicate investigated information.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V6975
54 My geography teacher links the work in geography on graphs to our everyday life, i.e. getting us to bring examples from newspapers and magazines for discussion in class.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V7076
55 My geography teacher organizes activities in which we arrange geographical features in logical order according to their structures.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V7177
B: Integrated Science Process Skills applied to the teaching of geography. Please respond to the following statements by making a cross (X) the number in the appropriate shaded block.	
56 My geography teacher encourages us to identify variables that affect geographical phenomena, e.g. how variables such as air temperature, air pressure, humidity and cloud cover influence the occurance of rainfall.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V7278



57 My geography teacher devises exercises in which we have to construct tables of data (tables of information).	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V7379
58 My geography teacher devises exercises in which we have to construct graphs.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V74 80
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59 Questionnaire Type	V75 2 1
60 Respondent Number	V762-5
61 Card Number	V77 2 6
62 Education District	V787-8
63 My geography teacher devises exercises in which we conduct investigations.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V799
64 My geography teacher devises exercises in which we identify the variables under study.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V8010
65 My geography teacher gives us geographical problems in which we are encouraged to construct hypotheses . (A hypothesis is a tentative answer to a problem).	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V8111



66 My geography teacher gives us exercises in which we are encouraged to define geographical features by using observable characteristics of the features.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V82 12
67 My geography teacher gives us hypotheses and request us to design investigations to test the given hypotheses.	
Strongly 1 Disagree 2 Agree 3 Strongly 4 Agree	V8313
68 My geography teacher devises exercises in which we have to describe the relationship between variables on a graph.	
Strongly 1 Disagree 2 Agree 3 Strongly Agree	V8414
69 State problems which you experience when Science Process Skills are applied to the teaching of geography.	
	V85
70 State how these problems can be solved.	
	V90 20 V91 21 V92 22 V93 23 V94 24
THANK YOU FOR YOUR CO-OPERATION	
If you have any queries regarding this study, please contact the researcher.	
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