Effects of streaming in P1 (former group A) primary schools in Mutare urban, Zimbabwe

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Abstract: The purpose of the study is to determine the effects of streaming on grade 5 pupils' academic achievement in P1 (Former group A) primary schools in Mutare Urban, Manicaland. Two primary schools were selected (one streaming school was randomly selected while the non-streaming school was purposely selected). A quasi-experimental design was opted. A sample size of 345 (males=169; females=176) was purposely selected of which 152 pupils (males = 72; females = 78) were from a non-streaming school, while 193 pupils (males = 95; females = 98) were from a streaming school. An adapted Wide Range Achievement test L1 revised for mathematics subtest was used to test for achievement levels. The results indicate a high significant difference (t (345) = -104.24, α =0.01) between non-streaming and a steaming schools. Girls were more represented in the high stream (70%) while boys were more in the middle streams (57%) and low stream (65%). The achievement levels decreases as pupils find themselves in lower streams and the grade equivalent differences (achievement lag) between high and low stream classes translates to 4 years of education while that of a non-streaming school is one year. Greater variability in test scores were found in the streaming school (s=4.37) than non-streaming school (s=2.91).

Key words: Achievement, Lag, Mathematics, Stream, Equivalent

I. Background

When children enter school, they bring individual differences in areas of previous academic achievement, cognitive attainments, temperament and home background. Schools hence respond to these differences by providing instructional approaches that suit individual students' needs, capacities, learning styles and prior academic achievements. Such a premise makes schools group students according to ability so that teachers tailor their instruction to a homogeneous group of students studying at the same pace (Irvin and Larson, 2001; Allington, 1994). Bright students are assumed to require enriched material and need a faster pace of learning while slow students benefit from repetition, remediation and frequent reviews.

Slavin (1987) cited some grouping forms at elementary schools as within-class grouping, abilitygrouped class assignment or between-class grouping, ability grouping for selected subjects, the Joplin plan, special classes for the gifted classes or low achievers. Within-class ability grouping is where a teacher groups pupils within his or her class according to ability. Thus allowing teachers to divide their time among specific subgroups and provide instruction which is sensitive to the needs and abilities of one group, while other groups engage in more non-teacher-directed instructional activities (Slavin, 1987). Ability-grouped class assignment or between classes ability grouping (sometimes referred to as tracking or streaming) pupils are assigned to a self contained class on the basis of ability or achievement. Ability grouping for selected subjects requires pupil assignment to homogeneous class for a particular subject or two according to achievement while they spend most of the day in a heterogeneous homeroom class. The Joplin plan is where pupils regardless of their grade levels meet for reading in a homogeneous class based on their achievement levels. Special classes for high achievers seek to bring together gifted, talented or superior pupils for part or all of the school day while their normal peers remain in relatively heterogeneous classes. Similarly, special classes for low achievers bring together pupils with learning problems for part or all of their school day.

However, Slavin and Braddock (1993) view ability grouping as not effective. Their criticisms to ability grouping can be summarized as:

- 1. The outcome of ability grouping is that students in low ability groups are exposed to substantially less material and to lower quality of instruction than students in the middle or high ability groups.
- 2. The pro-grouping argument is mainly concerned with effectiveness while the anti-group is concerned with equity and democratic values. They argue that proponents of ability grouping fail to meet this burden of proof clearly showing the effectiveness of grouping enabling to sacrifice the needs of low achievers in favor of high achievers.

- 3. Students in low-ability groups are likely to be exposed to more low-level skills than are students in the middle and high groups.
- 4. The feelings of inferiority and worthlessness may be the outcome of students in low ability groups
- 5. Students in the low track are still more likely to be delinquent than are other students and are less likely to complete their education.

The above supports the differential effects hypothesis of ability grouping.

The focus of this research is to determine the effects of between classes grouping at primary school level which is sometimes called streaming in Zimbabwe. Streaming can be defined here as the method of assigning pupils to classes on some overall assessment of ability. This is a school wide arrangement by which students are assigned to classes. According to Kulik (1992), teachers and administrators divide students into separate classes on the basis of their perceived abilities or prior knowledge. There is no policy on streaming at primary school level in Zimbabwe but at secondary level. The researcher has been an Educational Psychologist in The Ministry of Education and had noted that several primary schools practice streaming but follow the same syllabus and subjects with non-streaming primary schools. Pupils remain with one teacher for the whole day (similar to schools which do not stream) and this allows for strong relationships to be built between pupils and teacher which relationship is positively linked to student achievement (Moos, 1979). The purpose of the study is to determine if there are any achievement differences between streamed and non-streamed P1 (former group A) primary schools in Mutare urban. P1 primary schools (formerly group A schools) are located in former European affluent suburbs and were formerly attended by Whites, Indians and Colored students only and the schools were superior in terms of resources and trained teachers. Access to schools by pupils is based on residence. Hence, only those African pupils with high socioeconomic status parents and lived in former white suburbs could enroll in P1 (former group A) schools (Atkinson, 1982; Zindi, 1996). The main educational emphasis in Zimbabwe is on increasing educational standards after the regressed learning and subdued teaching caused by the country's economic melt-down (see Nkoma et al., 2012). Primary schools hence, assume that the best way to maximize academic success was by selective grouping. More specifically the study will look at within school variances and achievement differences between grade 5 schools that stream and not using standardized achievement tests.

According to Ireson and Hallam, (2001) ability grouping enables teaching to be effectively geared towards students of diverse abilities, allowing the most capable to reach the highest standards in each group. However, Oakes (1985) argues that teachers develop lower expectations for students in lower ability groups which deny them appropriate opportunities to learn and advance academically. Jung (2000) found that high ability group had more learning opportunity time than the low ability group and more time was spent on discipline issues than the high ability group. The low group students reported that they do not have student who could have acted as a role model for them. Similarly, studies on streaming in Zimbabwe have focused on secondary schools (Chisaka, 1996; Matavire, Mukavhi and Sana, 2012), and the findings indicate that low ability groups receive differential treatments and instructions from teachers and are stereotyped and labeled by other students and teachers.

Research studies indicate that high-achieving students achieve at same levels in tracked and untracked groups but the middle and low achieving students score at significantly higher levels when they are not working in tracks (Nunes, Bryant, Sylva and Barros, 2009; Boaler, 2002, 2008a; Borris, Heubert and Levin, 2006). A study involving 660 primary schools in the United Kingdom, found that streaming had negative effects including inequity, inaccurately formed groups, lowering students' self efficacy, and lowered standards for some groups (Jackson, 1964 cited by Macqueen, 2010). According to Boaler, (2011) heterogeneous classrooms based on cooperation among students change student perceptions of who they are and who they can be and they teach students about the different qualities and contributions of students who are different from themselves (Boaler, 2008a,b) and they challenge racial segregation in schools.

Studies on ability grouping have focused on teachers attitudes and beliefs about ability grouping (Hallam and Ireson, 2003), students preferences for different types of ability grouping (Boaler, et al., 2000; Hallam and Ireson, 2006), and the effects of ability on subject attainment (Ireson, et al., 2005). There is little or no research in Zimbabwe on primary school streaming and most researchers have focused on secondary schools using qualitative research. It is against this background that the study will determine variations in pupils' achievement in streamed and non-streamed Mutare urban P1, primary schools.

Purpose of study

The purpose of the study is to determine if there is equity in achievement levels within schools that stream and not (variation in pupils' achievement scores within the school), differences in achievement levels between non-streaming and steaming schools and also gender disparities in streamed classes.

Research questions

- 1. Are there any disparities by gender in schools that stream?
- 2. Are there any variations of pupils' mathematics achievement between schools that stream and not?
- 3. Are there any achievement differences in different grade 5 classes in non-streaming and streaming schools?

Hypothesis

Ho: There are no significant differences in pupils' mathematics achievement between non-streaming and streaming grade 5 pupils.

II. Methodology

Research design

To determine the variability of grade 5 pupils' achievement levels in Mutare urban, P1 primary schools the researcher opted for a quasi-experimental design –a non-equivalent groups design. This is necessary because one school streams while the other does not and they are all located in low density areas. Participants were not randomly assigned to treatment groups. Nevertheless, because it is applicable in so many circumstances, the non-equivalent groups design is the most commonly implemented research designs in the social sciences (Campbell and Stanley, 1963; Shadish, Cook and Campbell, 2002).

Population

There are three P1, Mutare urban primary schools and one of these does not practice streaming. All grade 5 pupils were targeted.

Sample

One of the two P1 schools which stream was randomly selected while the one which does not stream was purposively selected. Schools were matched according to location. All grade 5 pupils in the two schools participated in the study. A total sample size of 345 pupils (M=169; F=176) participated.

	School X		School Y			
Class	Class size (n)	Class	Class size (n)			
А	58	А	50			
В	46	В	41			
С	48	С	42			
		D	40			
		Е	20			
Total	152	Total	193			

Table 1. Class sizes in schools X and Y

School X (which does not stream) has three grade 5 classes having a total of 152 pupils (M = 74; F = 78). School Y has 5 streams of which class A has the best pupils (high stream), followed by class B, and class E being the lowest stream. A total of 193 pupils (M = 95; F = 98) from school Y participated in the study.

Instruments

A structured questionnaire for teachers and Head-teachers was administered to three grade 5 teachers in each school and two Head-teachers (n=8). The questionnaire focused on teacher attitudes and beliefs about steaming (see **annex 1**). A Wide Range Achievement test Level 1 (mathematics subtest) was used to determine pupils' achievement levels (**annex 2**). Pupils were assessed during school hours in their respective classrooms and one invigilator was assigned to each class. The tests took 30 minutes to administer. The teachers were allowed to respond to the questionnaires at their own time.

Analysis

Both qualitative and quantitative data analyses were used. Pupils' mean scores for each grade were converted to grade equivalence. The Zimbabwe education system is divided into three terms and each school term has 3 months. Assessments were done towards the end of first term in March. These pupils' ought to be achieving at lower fifth grade level, which is **5B** with a score of **30** on mathematics subtest (see **annex 2**). This is a grade equivalent score. The obtained mean scores for each grade and or class were transformed to equivalent grade levels.

III. Results

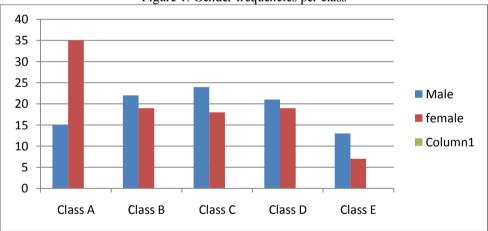
The headmaster is responsible for allocating teachers in their respective classes and the more experienced teachers are given high streams and less experienced low streams. There is no rotation of teachers in high, low and middle streams and pupils are tested once at the end of the year and changed streams depending on their school based test scores. Streaming begins at grade 2 level. All teachers in school Y agreed that academic standards would suffer if they stopped streaming but a teacher in the low stream preferred rotation of different streams. All teachers agreed that the high teacher-pupil ratio impact negatively on teaching and teacher-pupil relationships. All teachers agreed that they provide different content activities depending on whether the class has low, middle or high achieving pupils.

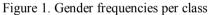
The first research question states if there are any disparities in gender in a school that stream. School Y streams and class A is the highest stream followed by B class and lastly class E is the lowest stream.

	Sc	chool Y					
Class	Class size (n) Male Female						
		n	%	n	%		
А	50	15	30	35	70		
В	41	22	53	19	46		
С	42	24	57	18	43		
D	40	21	53	19	47		
Е	20	13	65	7	35		
Total	193	95		98			

Table2. Streams in school Y and gender distribution by class

Table 2 and figure 1 indicate that girls are more represented in class A-the highest stream (f = 35 versus m = 15), that is 70% of girls are represented, and are lowest in class E, the lowest stream (f = 7 versus m = 15), representing 31.8% girls. The middle stream, class C has more boys than girls. Boys are more represented in classes B to E.





The second research question compares the variations in pupils' achievement within a school that stream and not. To determine this, means and standard deviations were computed for each of the grade 5 classes in a non-streaming school (school X) and a school that streams (school Y). The overall means and standard deviations for each school were also computed. In school Y, the 'A' class is the upper stream whereas the 'E' class is the lowest.

	SCHOOL Y				School 1		
Class	Sample size	Mean Score	Std dev (s)	Class	Sample size (n)	Mean	Std dev
	(n)						(s)
А	58	33.19	2.86	А	50	37.76	2.53
В	46	29.65	2.26	В	41	35.25	2.85
С	48	29.73	1.76	С	42	32.48	2.86
				D	40	30.33	2.64
				Е	20	27,65	3.65

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In class A and class C in schools X and Y respectively have similar variations (2.86) in pupils' achievement scores. However, the highest variability occurred in the lowest stream (3.65) in school Y and the lowest occurred in school X, class C (1.76). There appears to be no relationship between the means and the standard deviations. School X standard deviations ranged from 1.76 to 2.86 while in school Y they ranged from 2.53 to 3.65. The overall standard deviations indicate greater variability in school Y (s = 4.37) and less in school X (s =2.91).

The third research question states if there are any achievement differences within each grade in nonstreaming and streaming schools. To determine this, obtained mean scores for each grade were transformed to grade equivalent (using the WRAT-R LI) and compared to the expected score of grade 5 which is 30 (annex 2 for conversions). For example 6B refers to pupils achieving at lower sixth grade level; 6M are those pupils operating at mid-sixth grade level and 6E entails those pupils achieving at upper sixth grade level.

School X						School Y				
Class	Obtained mean Score	Grade equivalent	Expected score	Grade equiva	Class	Obtained mean score	Grade equivalent	Expected mean score	Grade equiva	
A	33.19	6B	30	5B	Α	37.76	8B	30	5B	
B	29.65	5B	30	5B	В	35.25	7B	30	5B	
С	29.73	5B	30	5B	С	32.48	6B	30	5B	
				D	30.33	5B	30	5B		
					Е	27,65	4B	30	5B	

Table 4. Mean scores and the grade equivalent for schools X and Y

Table 4 indicates that in school X, class A is achieving at lower sixth grade (a grade above their current grade 5 placements) and the other two classes are achieving at lower fifth grade which is equivalent to their current grade placement. The mean score differences between class A (with highest mean) and class B (with lowest mean) is 3.54 while the grade equivalent differences (6B and 5B) is 1(one) grade which is equivalent to one year of education. Thus, the achievement lag between these classes is one year. The achievement levels in school Y range from lower grade 8 (highest stream) to lower fourth grade (4B) which is the lowest stream. The pupils are achieving at above grade 5 level (classes A to D) and below (class E). In general, the achievement levels decreases as pupils find themselves in lower streams. The difference in mean scores between the highest stream (class A) and lowest stream (class E) in school Y is 10.11 while grade equivalent differences (between 8B and 4B) is 4 grades which equates to an achievement lag of 4 years in education.

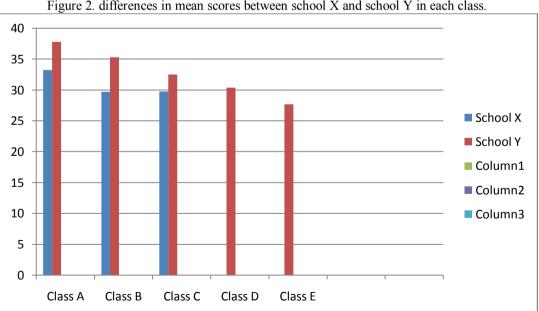


Figure 2. differences in mean scores between school X and school Y in each class.

The above graph indicates that school Y performs better than school X at all levels except for the lowest stream (class E).

The first hypothesis states that there are no significant differences in pupils' achievement between nonstreaming and streaming grade 5 pupils.

Tuble 5. t test tuble showing sample sizes (ii), means and standard deviations for schools X and T.									
		School X	School Y	d.f.	t-value				
	Total score	4716	6464	345	-				
	Sample size	152	193		104.24				
	Mean	31.02	33.49						
	Std dev	2.91	4.37						

Table 5. t-test table showing sample	e sizes (n) means and standa	rd deviations for schools X and Y
i dole 5. i test dole showing sumple	sizes (ii), incans and standa	

There are high significant differences in pupils' achievements between a school that does not stream and the one that practice streaming: t (345) = -104.24, α =0.01. School Y is achieving better overall.

IV. Discussion

Teachers agree that the high teacher-pupil ratio impacts negatively with teaching and teacher-student relationships while teacher expectations differ according the level of the stream employed. This concurs with studies by Pollard et al., (1991), and Hallam and Ireson, (2005) and Wiliam and Bartholomew, (2004) respectively. Studies have shown that positive teacher relationships are related to academic achievement (Hamre and Pianto, 2001). Teacher expectations have been shown to impact on student learning opportunities (Rubie-Davies et al., 2006)

The findings indicate that girls are more represented in the upper stream while boys are in the lower stream. Interviews with teachers indicated that streaming at school Y begins at grade 2 level hence the achievement differences might not be attributed to ability but the way teachers' perceive girls in terms of being passive and less disruptive than boys (Crocker and Cheeseman, 1991). However, there are increasing reasons to believe that what happens in the earliest years in schooling may set students on a path to either success or increasing chances for failure (Entwistle et al., 1997; Phillips et al., 1998).

Greater variability in mathematics test scores as measured by standard deviations was found in a school that streams indicating substantial inequalities within the school which might be attributed to selective procedures used in schools or policies applied by the school thus different groups of pupils within the school encountered different teaching learning environments.

The high stream class performed three grades above their grade placement while the lowest stream was achieving a grade below. The grade differences between high stream and low steam translates to 4 years education. There was a variation of one year in a non streaming school. This concurs with reviews by Slavin (1990) and Boaler (1997) who concluded that streaming only benefits students in the top ability group. Similarly, Kerckhohoff (1986) showed that students to selective classes increased their achievement more than similar students who enrolled in mixed ability classes while students in the low-level classes fell further and further behind. Previous research (Boaler, William and Brown, 2000; William and Bartholomew, 2004) has found that teachers alter classroom practices, providing different content and activities depending on whether a class contains low, middle or high achieving learners. Also, assigning pupils to low ability classrooms call for expectation for pupils that become self-fulfulling prophecies (Nachmias, 1977, in Reuman, 1989). Thus pupils have negative affect toward school due to their low academic self-concept. Also, Hallinan and Sorensen (1983) report that when pupils are moved to lower-ability group it disturbs their self-esteem and lose motivation and learn less than if they were not grouped

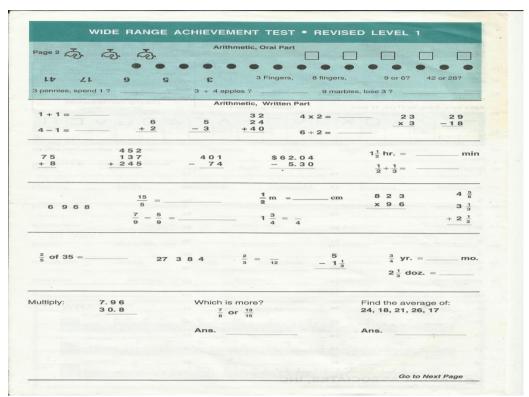
The findings indicate highly significant differences in achievement between streamed and mixed ability schools with a streamed school being better off. Kerckhoff (1986) and Hoffer (1992) found similar results for mathematics achievement which strongly supported the theory differential effects, whereby students in highergrouped classrooms learned more compared to their non-grouped students. Also, Heras and Rangel (2009), study strongly supports the differential effects hypothesis of ability grouping. However, a study by Betts and Shkolnik (2000) found little to no effects of grouping for mathematics instruction on the mathematics growth among middle school students after taking into account differences in class ability levels. Thus their study estimated the effects of grouping for instruction.

V. Conclusion

The results indicate that more girls are represented in the high stream while boys are more in the low stream. The high and middle streams are achieving at above grade 5 level while the low stream is performing a grade below grade 5. There is a 4 year difference in education between high and low streams. The non-streaming school has no class achieving at below grade 5 level and the difference between the high and low classes performances is one year in education they are significant differences in performances between a non-streamed and a streamed school with a streamed school doing better. This supports the differential hypothesis of ability grouping.

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Annex 1

Annex 2

				· · · 8-															
score	1-13	14	15-	17-	19	20	21-	23-	25-	27	28-	30	31	32-	34	35-	37	38-	40
			16	18			22	24	26		29			33		36		39	
Grade	Pre-	1B	1M	1E	2B	2M	2E	3B	3E	4B	4 E	5B	5E	6B	6E	7B	7E	8B	8E
equiv	first																		

Questionnaire for teachers and Headmasters

1.	Who assigns teachers	to classes/stre	eams?		
	Cross the most appro	priate respo	nse for questions 2	up to 12	
2.	High teacher-pupil rati	o impact neg	atively on teaching	and teacher-pupil relati	onships
	Strongly agree	Agree	Neutral	disagree	strongly disagree
3.	High achieving pupils	benefit from	working with simila	ar peers	
	Strongly agree	Agree	Neutral	disagree	strongly disagree
4.	Lower achieving pupil	s benefit from	n working with high	achieving pupils	
	Strongly agree	Agree	Neutral	disagree	strongly disagree
5.	Low achieving pupils i	n low stream	develop lower self	esteem	
	Strongly agree	Agree	Neutral	disagree	strongly disagree
6.	Academic standards in	prove with s	teaming in schools		
	Strongly agree	Agree	Neutral	disagree	strongly disagree
7.	Moral for high and mic	ldle stream te	achers is high		
	Strongly agree	Agree	Neutral	disagree	strongly disagree
8.	Morale is low in low st	ream teacher	S		
	Strongly agree			disagree	strongly disagree
9.	The least experienced t	eachers are a	ssigned to low strea	am classes	
			Neutral	disagree	strongly disagree
10.	The highly experienced	d teachers are	assigned to high st	ream classes	
	Strongly agree	Agree	Neutral	disagree	strongly disagree
11.	Teacher expectation/in	struction diff	er according to the	level of streaming	
	Strongly agree	Agree	Neutral	disagree	strongly disagree
12.	Teachers provide different	rent content/a	activities depending	on whether they are in	the low, middle or high stream
	Strongly agree	Agree	Neutral	disagree	strongly disagree