AUTOMATED MARKBOOK

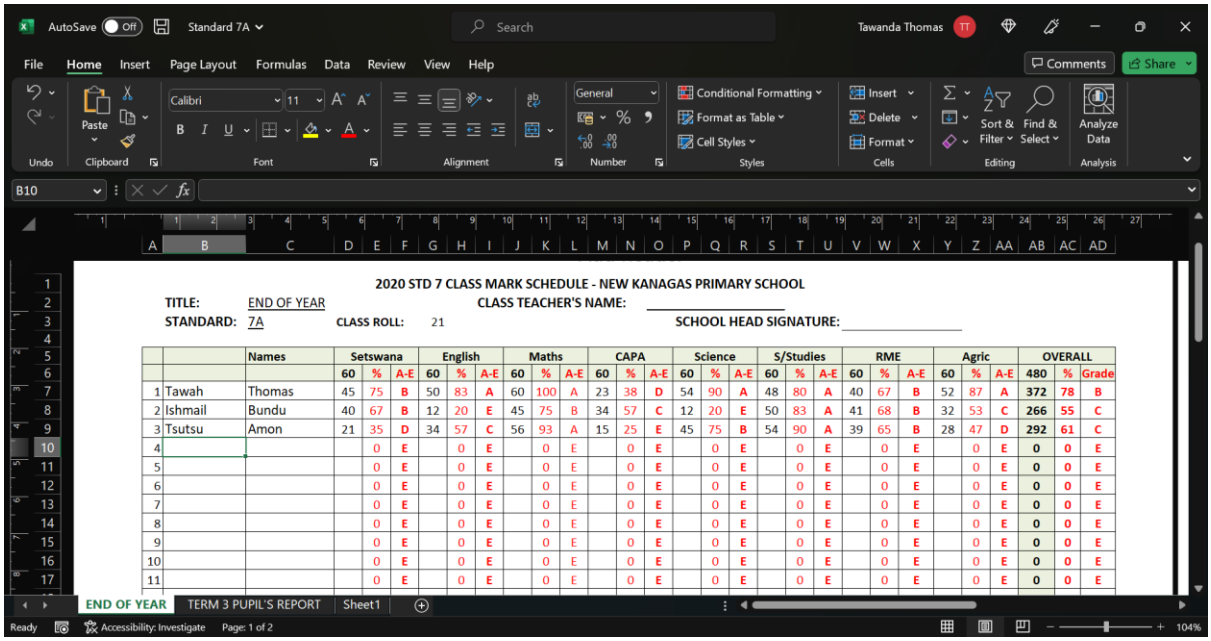
In 2018 I started a job as an IT specialist in a project by Universal Access Fund that was aimed enabling underserved and unserved communities to access broadband Internet and other ICT services. I was placed in a primary school where I developed an automated mark book that calculates a student's percentage mark and grade the student as well as populate a report for all the subjects and overall mark. This helped teachers save time, become more accurate and do away with the pen, paper and calculator system they were using before.

SKILLS USED

- SUM
- COUNTIF
- VLOOKUP
- NESTED IF
- DATA VALIDATION

Click the link below for a demo video of how the mark book works.

https://loom.com/share/b62caaa286c6418088a11c6be10d3206



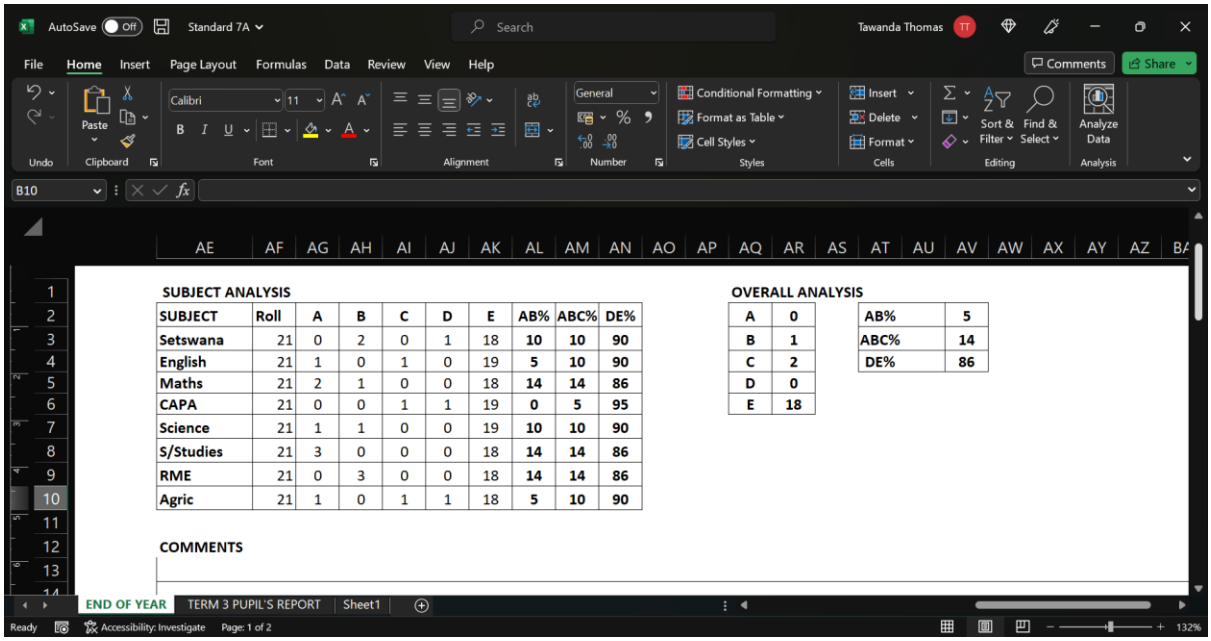
2020 STD 7 CLASS MARK SCHEDULE - NEW KANAGAS PRIMARY SCHOOL

TITLE: END OF YEAR CLASS TEACHER'S NAME: _____

STANDARD: 7A CLASS ROLL: 21 SCHOOL HEAD SIGNATURE: _____

		Names	Setswana			English			Maths			CAPA			Science			S/Studies			RME			Agric			OVERALL		
			60	%	A-E	60	%	A-E	60	%	A-E	60	%	A-E	60	%	A-E	60	%	A-E	60	%	A-E	60	%	A-E	480	%	Grade
1	Tawah	Thomas	45	75	B	50	83	A	60	100	A	23	38	D	54	90	A	48	80	A	40	67	B	52	87	A	372	78	B
2	Ishmail	Bundu	40	67	B	12	20	E	45	75	B	34	57	C	12	20	E	50	83	A	41	68	B	32	53	C	266	55	C
3	Tsutsu	Amon	21	35	D	34	57	C	56	93	A	15	25	E	45	75	B	54	90	A	39	65	B	28	47	D	292	61	C
4				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
5				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
6				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
7				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
8				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
9				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
10				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E
11				0	E		0	E		0	E		0	E		0	E		0	E		0	E		0	E	0	0	E

The screenshot above shows where the teacher enters the student names and marks for all the subjects taken. Then the percentages and grades will be automatically generated.



SUBJECT ANALYSIS

SUBJECT	Roll	A	B	C	D	E	AB%	ABC%	DE%
Setswana	21	0	2	0	1	18	10	10	90
English	21	1	0	1	0	19	5	10	90
Maths	21	2	1	0	0	18	14	14	86
CAPA	21	0	0	1	1	19	0	5	95
Science	21	1	1	0	0	19	10	10	90
S/Studies	21	3	0	0	0	18	14	14	86
RME	21	0	3	0	0	18	14	14	86
Agric	21	1	0	1	1	18	5	10	90

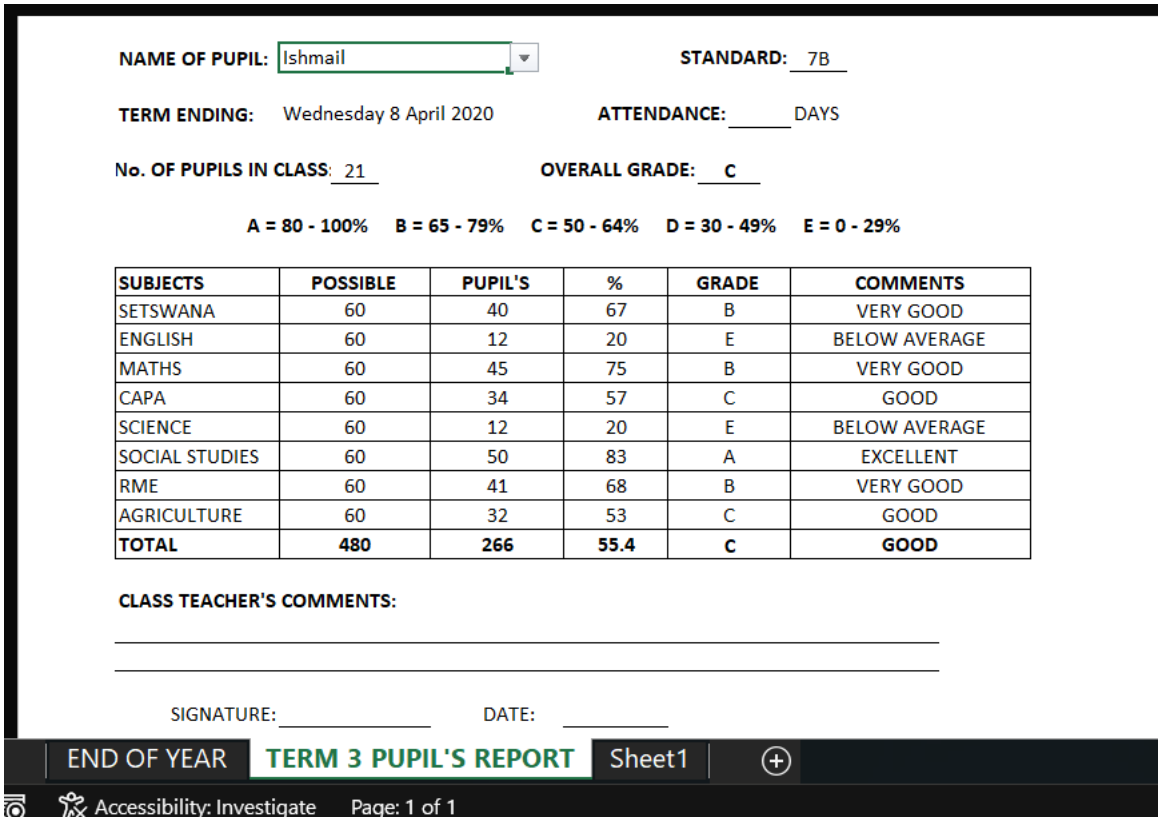
OVERALL ANALYSIS

A	0
B	1
C	2
D	0
E	18

AB%	5
ABC%	14
DE%	86

COMMENTS

Once all the students data has been captured a subject analysis will be generated here as well as the overall analysis to show class performance.



NAME OF PUPIL: Ishmail STANDARD: 7B

TERM ENDING: Wednesday 8 April 2020 ATTENDANCE: _____ DAYS

No. OF PUPILS IN CLASS: 21 OVERALL GRADE: C

A = 80 - 100% B = 65 - 79% C = 50 - 64% D = 30 - 49% E = 0 - 29%

SUBJECTS	POSSIBLE	PUPIL'S	%	GRADE	COMMENTS
SETSWANA	60	40	67	B	VERY GOOD
ENGLISH	60	12	20	E	BELOW AVERAGE
MATHS	60	45	75	B	VERY GOOD
CAPA	60	34	57	C	GOOD
SCIENCE	60	12	20	E	BELOW AVERAGE
SOCIAL STUDIES	60	50	83	A	EXCELLENT
RME	60	41	68	B	VERY GOOD
AGRICULTURE	60	32	53	C	GOOD
TOTAL	**480**	**266**	**55.4**	**C**	**GOOD**

CLASS TEACHER'S COMMENTS:

SIGNATURE: _____ DATE: _____

The above figure shows the final student progress report generated.