

Use of the WG/UNICEF Child Functioning Module for disaggregation by disability status in Fiji's Education Management Information System (FEMIS)

**Washington Group meeting
Sydney, Australia
1st November 2017**

Beth Sprunt



THE UNIVERSITY OF
MELBOURNE

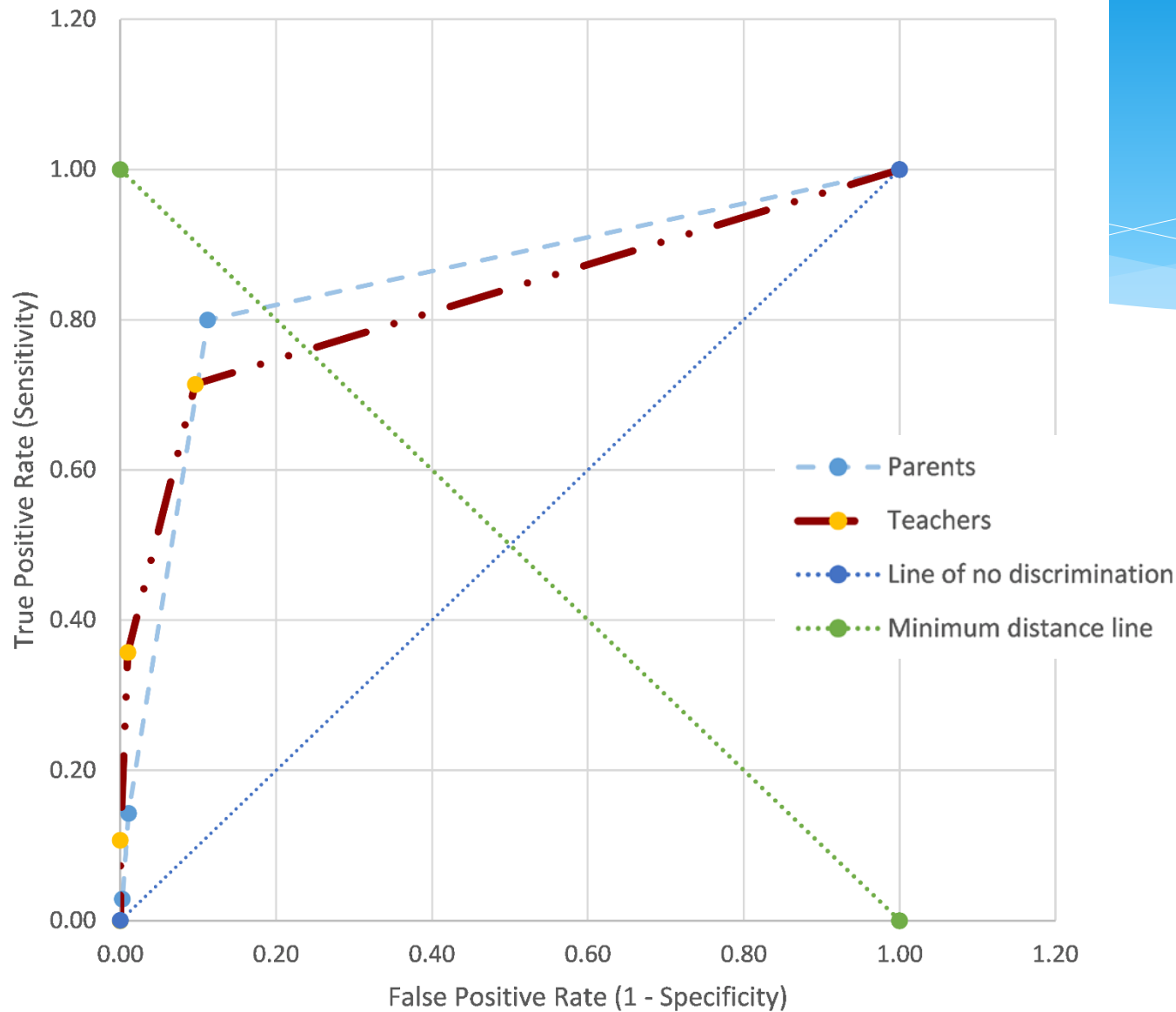
THE
NOSSAL
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FOR GLOBAL
HEALTH

Research undertaken to inform the approach to disability disaggregation of Fiji's Education Management Information System (FEMIS)

- Investigated validity and reliability of the UNICEF/Washington Group Child Functioning Module, comparing teacher and parent results to clinical assessments
- Investigated interplay of CFM results with learning support needs data
- Funding for the research: two DFAT funded programs:
 - Access to Quality Education Program (AQEP)
 - ADRAS: Pacific INDIE

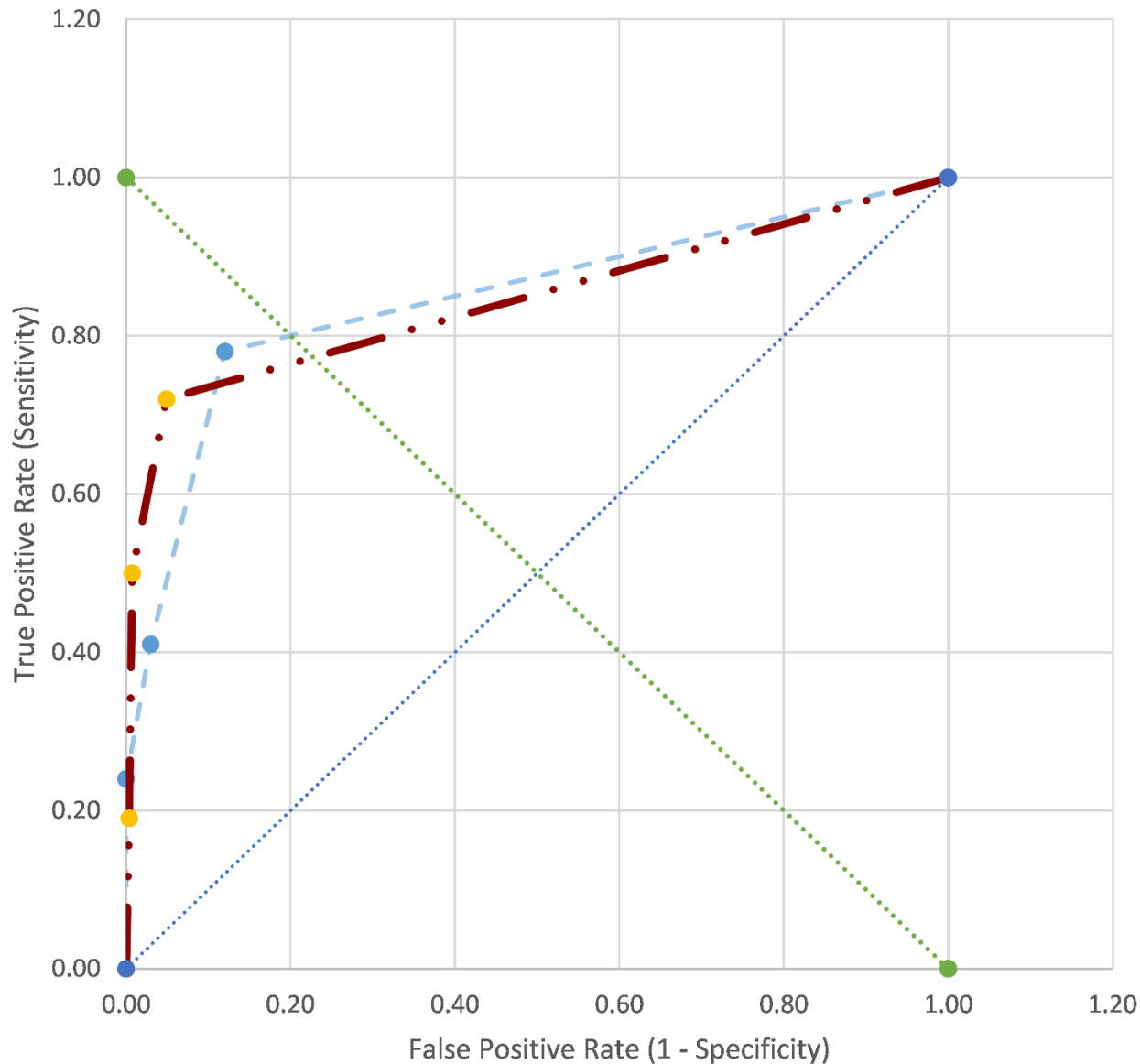
Results

— Seeing



Results

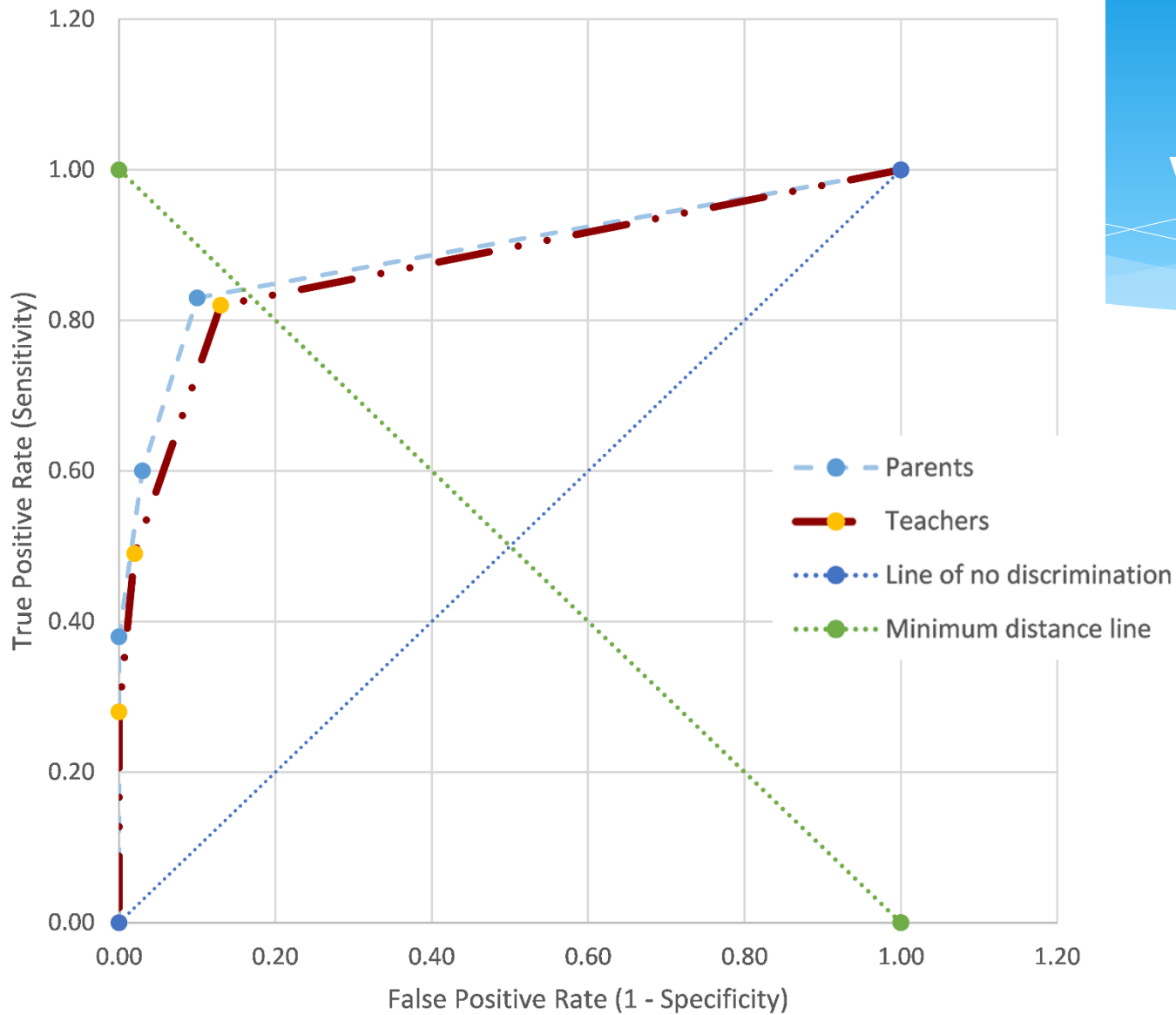
— Hearing



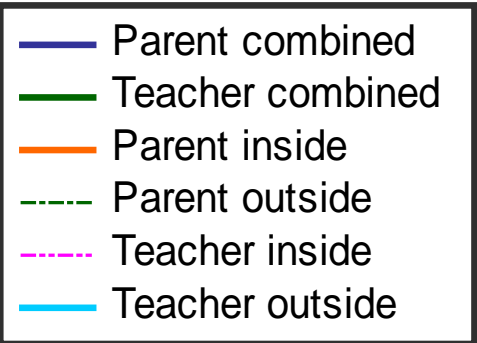
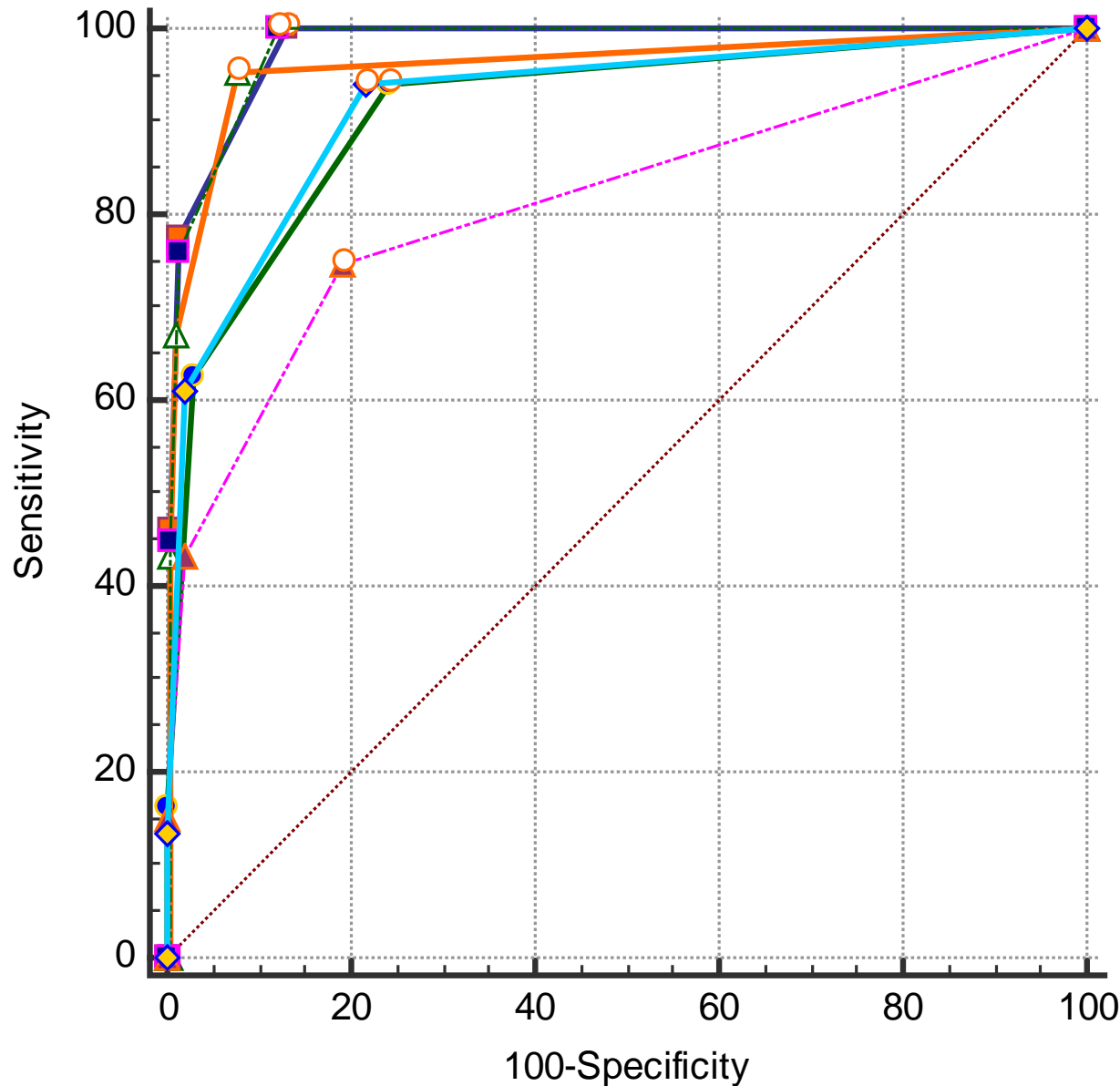
- Parents
- Teachers
- Line of no discrimination
- Minimum distance line

Results

Walking



Results – Speaking



Fiji Education Management Information System (FEMIS)

➤ www.femis.gov.fj



FEMIS LIVE VERSION

[Home](#)[MOE Login](#)[District Login](#)[School Login](#)[Teacher Login](#)[Student Login](#)[Admin Login](#)[Public](#)[About](#)

MOE Logon

Please click help | recent updates to see recent updates.

If you have lost or forgotten your password, please email the MOE-IT Unit on femis.helpdesk@govnet.gov.fj.

Your user name is most likely your govnet email address if you are an MoE employee.

If you know your password then;

1. Enter your user name in this box:

2. Then enter the password in this box:

MAKE SURE CAPS LOCK IS OFF

3. Then click this button to proceed:

Welcome! Show these dashboard indicators for: 2017 ▾

See the latest FEMIS updates by clicking [HERE](#)

Schools Reporting Staffing Issues **149** Missing Citizenship Data: **31**

Missing Birth Cert (or passport) Numbers: **8297** Bus Assistance Amount: \$5,507,221.44

Teacher Pupil Ratio: 9.95 All Student Financial Assistance: \$60,767.96

Number of Classes: 10108 Average Teacher Age: 43
Main student absent reason: Unknown

	ECE	Primary	Secondary	Tech Col	National
Students:	15093	147370	65843	1	228499
Student Days Absent:	182016	1871860	1004505	0	3059735
Teachers:	1233	6199	5643	357	22974

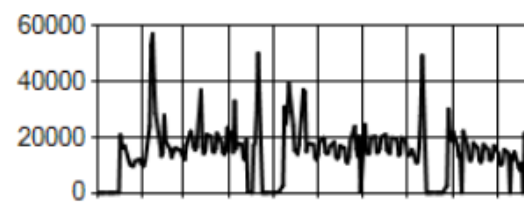
Funding	Allocation	Spent	Unspent
Admin	\$20,493,670.98	\$14,463,007.94	\$6,030,663.04
Buildings	\$13,303,631.29	\$13,465,887.77	-\$162,256.48
Computer	\$9,843,167.45	\$5,116,202.89	\$4,726,964.56
Health and Nutrition [Milk, Fruits, etc]	\$179,408.02	\$21,901.28	\$157,506.74
Learning Resources and Furniture	\$358,816.03	\$69,686.86	\$289,129.17
Library	\$6,562,111.63	\$3,029,305.23	\$3,532,806.40
Outdoor Recreational Equipment	\$269,112.03	\$22,616.35	\$246,495.68
PE, music, arts	\$6,562,111.63	\$3,167,806.45	\$3,394,305.18
Stationery	\$9,843,167.45	\$5,900,430.96	\$3,942,736.49
Totals:	\$67,415,196.51	\$45,256,845.73	\$22,158,350.78

Unapproved Disability Assessments Waiting For Approval

District	HT/Principal	DEO	SEO Spec. Ed.
Ba-Tavua	151	161	250
Cakaudrove	32	43	48
Eastern	35	37	40
Lautoka-Yasawa	111	191	222
Macuata-Bua	739	1048	1062
Nadroga-Navosa	55	56	74

Financial data as of yesterday.

Student Absences Per Day



School Search

School Type: --All--

School Name (pick from list): Arya Samaj Primary School (2340) Find

Clicking the Find button will find the school and get back to (this) Ministry or District view

- Arya Samaj Primary School (2340)
- All Saints Secondary School (1668)
- Aman's Memorial Kindergarten (9934)
- Amazing Grace Kindergarten Sakoca (8736)
- American International Christian Kindergarten School (8189)
- American International christian School Kindergarten (8190)
- Amichandra Kindergarten (9606)
- Amichandra Memorial School (1043)
- Anand Kindergarten (9972)
- Andhra High School (1759)
- Andhra Kindergarten (9823)
- Andrews Kindergarten (9665)
- Andrews Primary School (1050)
- ANGEL KEEPERS KINDERGARTEN (8422)
- Annesley Methodist Infant School (2321)
- AQEP (A215)
- Aquila Kindergarten (9987)
- Arya Kanya Pathshala (1051)
- Arya Samaj Kindergarten Suva (9565)
- Arya Samaj Natabua Ktn (9776)
- Arya Samaj Primary School (2340)

Click the Exit School View button to return to the Ministry or District view

[School](#) [Staff](#) [Classes/Students](#) [Reports >](#) [Leave >](#) [Teacher Subjects](#) [Teacher Accounts](#) [Resources](#) [Maps](#) [Help >](#)
[Basic](#) [Details](#) [Revenue](#) [Expenditure](#) [Assets](#) [Supp Staff](#) [P/T Staff](#) [Expenses \(Vouchers\)](#) [Income](#) [Docs](#) [Grants](#) [Leave](#)
[Library](#) [Food and Canteen](#)

Welcome! Show these dashboard indicators for: 2017 ▾

A Good Place To Start is Here -> [Set Up Your School](#)You can download Instruction Manual from Help Menu or Download by Clicking [HERE](#)See the latest FEMIS updates by clicking [HERE](#)

Dear School Heads: Please check the list of current students who are eligible for transport assistance. [Funds to be loaded](#) (5.7 MB) indicates assisted students who use Bus as a mode of transport and thus will be using e-ticketing cards and [Funds NOT to be loaded](#) (1.1 MB) indicates assisted students who use other modes of assistance such as boats, RSL. These lists are current as of **13 Sep 2017**. For queries please contact the Finance section's Transport Assistance Unit on **3220429**.

Number of Students:	683	Missing Citizenship Data:	0
Missing Birth Cert (or passport) Numbers:	0	Bus Assistance Amount:	\$20,816.76
Number of teachers:	18	All Student Financial Assistance:	\$0.00
Teacher Pupil Ratio:	37.94	Average Teacher Age:	36
Number of Classes:	16	Main student absent reason:	Unknown

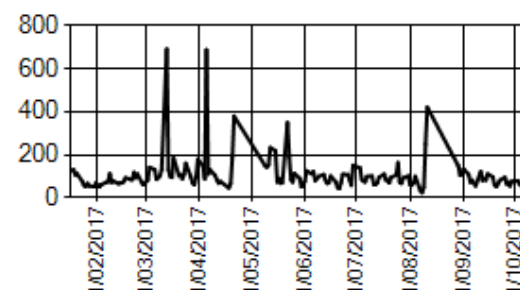
School Primary Secondary District National

Students:	683	147370	65843	58091	228499
Student Days Absent:	17202	1871860	1004505	688858	3059735

This school does not have students registered in other schools at the same time.

You last logged on 26/10/2017 7:55:00 AM from computer address 101.181.22.214

Funding	Allocation	Spent	Unspent
Admin	\$42,335.06	\$23,036.05	\$19,299.01
Buildings	\$28,223.37	\$12,463.69	\$15,759.68
Computer	\$21,167.53	\$505.00	\$20,662.53
Library	\$14,111.69	\$6,266.45	\$7,845.24
PE, music, arts	\$14,111.69	\$6,125.00	\$7,986.69
Stationery	\$21,167.53	\$7,834.76	\$13,332.77
Totals:	\$141,116.85	\$56,230.95	\$84,885.92

Student Absences Per Day**Unapproved Disability Assessments Waiting For Approval**

HT/Principal	DEO	SEO Spec. Ed.
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Student Details For: A Student ID: 1 Date of Birth: 2 11

Basic Information

Subjects

Home Life

Function/Disability

Drug Activity

Move/Remove

LANA

Attendance

Fees

Financial Assistance

Health

Student Record

Transf Letter

Basic Information - for the student above. * The Birth Certificate number is the BDM number. Or, provide a passport number for non-citizens.

Student ID: 1 Birth Reg (or passport) No.: * 1 Gender: Male Attended ECE: ☒
First Name: Other Name: A Ethnicity: Indo Fijian
Surname: Father's name: li Date of Birth: 2 011

Show details for: Year: 2017 Class: 1 Stream: 1

Term 1	Start Date:	16/01/2017	(16/01/2017)	Student started term normally	Term 1
	End Date:	21/04/2017	(21/04/2017)	Student finished term normally	
Term 2	Start Date:	08/05/2017	(08/05/2017)	Student started term normally	Term 2
	End Date:	11/08/2017	(11/08/2017)	Student finished term normally	
Term 3	Start Date:	28/08/2017	(28/08/2017)	Student started term normally	Term 3
	End Date:	24/11/2017	(24/11/2017)	Student finished term normally	

New Student: Yes
Repeater: No
Boarder: No
Consent School Activities: Yes
Consent Health Check: Yes
Citizenship of Student: Local
Transport: Foot
Had Yearly health check: Yes
Consent Dental Check: Yes
Consent Swimming: Unknown
Student Email: Unknown
Had Dental Check: Yes
Consent Sports: Yes
Consent Excursions: Yes
Created by: Not Saved
Created when: Not Saved
Last Saved by: 2340
Last Saved when: 2/02/2017 12:48:00 PM
Save and Go To Class Cancel Save

School

Staff

Classes/Students

Reports >

Leave >

Teacher Subjects

Teacher Accounts

Resources

Maps

Help >

Student Details For: [REDACTED] el Student ID: 1 [REDACTED] 01 Date of Birth: 2 [REDACTED] 011

Basic Information

Subjects

Home Life

Function/Disability

Drug Activity

Move/Remove

LANA

Attendance

Fees

Financial Assistance

Health

Student Record

Transf Letter

Health - Body Mass Index Calculator For the Life of the Child

Date of
Measurement: 26/10/2017

Height (metres):

Weight (kg):

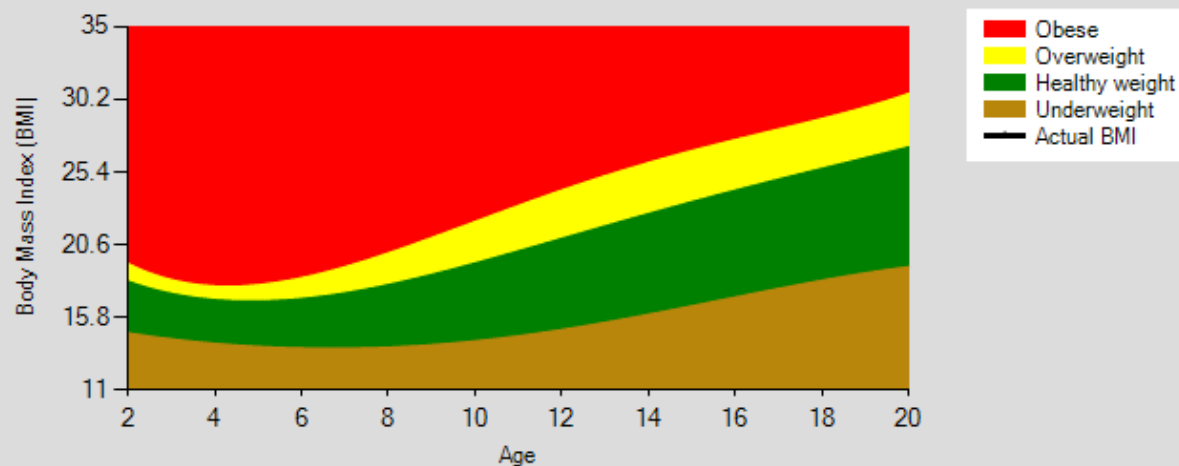
Add These New Measurements

Print

Click [here](#) for more information.

No measurements entered yet for this student.

BMI of S [REDACTED] li born 2 [REDACTED] 011



Student Learning Profile - part 1

The data for completing this form should arise from a meeting you have had with the parent and other relevant people, using a printed form *Student Learning Profile*
Due to security reasons this form will expire in 20 minutes and you will lose unsaved work.

You should know the TPF of the teacher BEFORE starting to fill in this form

TPF of Teacher Completing this Form:	<input type="text" value="8"/>	Teacher: K	<input type="text" value=""/>
Parent/guardian completing the form: Name:	<input type="text" value="M"/>	Date Form Completed:	<input type="text" value="12/05/2017"/>
Relationship to child:	<input type="text" value="Father"/>	Other (please specify):	<input type="text" value=""/>
Other person involved in completing the form: Name:	<input type="text" value="A"/>	Other (please specify):	<input type="text" value=""/>
Relationship to child:	<input type="text" value="Teacher Aide"/>	Other (please specify):	<input type="text" value=""/>
Other person involved in completing the form: Name:	<input type="text" value=""/>	Other (please specify):	<input type="text" value=""/>
Relationship to child:	<input type="text" value="..."/>	Other (please specify):	<input type="text" value=""/>

Q1) Is the child currently using any of the following types of assistive device(s)? (Tick all applicable options; refer to the pictures of assistive devices in the Accompanying Guide; if the child uses NONE of these, please tick option 12)

- 1.1 Glasses ☐ (or contact lenses)
- 1.2 Hearing aid ☐
- 1.3 Mobility aid:
 - 1.3.1 Wheelchair ☒
 - 1.3.2 Crutches, walking stick or walking frame ☐
 - 1.3.3 Other mobility aid, please specify:
- 1.4 Braille machine ☐ (child reads by touching the bumps on the machine or page)
- 1.5 Screen reading software ☐ (computer program reads the text out loud)
- 1.6 White cane ☐ (for low-vision or blind children)
- 1.7 Orthotic devices ☐ (to support legs, arms or spine)
- 1.8 Artificial limbs ☐ (prosthetics)

- 1.8 Artificial limbs ☐ (prosthetics)
- 1.9 Modified furniture ☐ (eg. special chair or desk; modified height of desk)
- 1.10 Communication boards ☐ (e.g. a board with pictures children point to and express themselves)
- 1.11 Others (Please specify) ☐
- 1.12 No Assistive Device used ☐

Q2) Does the child receive any human assistance for walking or moving?

Yes ▼

Describe:

Q3) Compared with children the same age, does this child have difficulty in the following areas:

Please write a short description of the difficulty

3a Seeing	<p>Difficulty seeing things close up or far away, like objects, faces or pictures.</p> <p><i>If the child wears glasses, does the child have difficulty seeing even when wearing the glasses?</i></p>	<p>No difficulty ▼</p> <p>No difficulty</p> <p>A little difficulty</p> <p>A lot of difficulty</p> <p>Cannot do at all</p>	<input type="text"/>
3b Hearing	<p>Difficulty hearing sounds like peoples' voices or music.</p> <p><i>If the child wears hearing aids, does the child have difficulty hearing even when using hearing aids?</i></p>		<input type="text"/>
3c Gross motor actions	<p>Walking or climbing stairs</p>	<p>A lot of difficulty ▼</p>	<input type="text" value="he is using the wheel chair"/>
3d Fine motor actions	<p>Difficulty using hands and fingers, such as picking up small objects, for example, a button or pencil, or opening and closing containers or bottles?</p>	<p>No difficulty ▼</p>	<input type="text"/>
3e Speaking	<p>Difficulty being understood when speaking (in the language that is most usual for the child)</p>	<p>No difficulty ▼</p>	<input type="text"/>

3f Learning (general)	Difficulty with general intellectual functions such as learning and remembering. <i>Includes learning a range of things related to school, play, tasks at home, etc.</i>	No difficulty ▼	
3g Learning (specific)	Difficulties in specific learning areas within literacy or numeracy, eg. dyslexia or dyscalculia. <i>Child learns most other things normally or above average.</i>	No difficulty/Not Applicable ▼	
3h Behaviour/ Attention/ Socialisation	Difficulty controlling his/her own behaviour, and/or focusing and concentrating, and/or accepting changes in routine, and/or making friends	No difficulty ▼	
3i Emotions	How often does the child seem: Very sad and depressed, and/or very worried and anxious? <i>Rarely = never or just a few times/year</i>	Rarely ▼	

In addition, if the child has difficulties in areas that are not listed above, please describe here:

Click this button if you need to restart the 20 minute security timer to allow more time. This does not save any data. [Restart Session Timer](#)

Learning support needs

Personal Assistance (assistance from a human, not due to assistive devices)

Q4) Compared with children the same age, how much personal assistance at school does the child require with any of the following tasks? Answer all rows.

4a Moving around the classroom	Needs a little more assistance than other children ▼	assistance from friends to push him around
4b Moving around outside in the school grounds	Needs a little more assistance than other children ▼	from friends to push him around
4c Getting to and from school	Needs no extra assistance ▼	capable
4d Communication	Needs no extra assistance ▼	capable
4e Cognitive / learning activities	...	capable
4f Self-care (eating, toileting)	Needs no extra assistance	capable
	Needs a little more assistance than other children	
	Needs much more assistance than other children	

4f Self-care (eating, toileting)	Needs no extra assistance ▼	capable
4g Socialising with other children	Needs no extra assistance ▼	capable
4h Managing own behaviour	Needs no extra assistance ▼	capable

Q5) Record adaptations to learning or assessment that you are already doing currently make for this student? Answer all rows.

5a Child sits close to the board or teacher	No need for this ▼	capable
5b Printed materials are enlarged	No need for this ▼	capable
5c Printed materials are provided in Braille	No need for this ▼	capable
5d Physical education (sport) activities and games are modified	Not done, but there might be a need ▼	to give activities th
5e Modifying the lesson, or reducing the complexity of the lesson for the child	No need for this ▼	capable
5f Sign language interpreters are available for learning and other school activities	Yes, we do this No need for this Not done, but there might be a need	capable
5g Additional time provided for assessments	Not done, but there might be a need	capable
5h Assistance during assessments (eg. note taker, sign language interpreter)	No need for this ▼	capable
5i Child receives support from a Teacher Aide	No need for this ▼	capable
5j School staff provide education to the child at home	No need for this ▼	capable
5k Other	No need for this ▼	capable
5l Other	No need for this ▼	capable

Other Information

Q6) Does the student have an Individual Education Plan (IEP)?

Yes ▼

Q7) Any other comments, including additional information related to education supports required: If you feel that the situation or needs of this child are not adequately captured in the above information, please describe his or her situation and additional requirements.

none

Q8) What are the student's strengths/capabilities and interests?

very bright student. tolerant, wants to be doctor when he grows up.

Recommendations and Follow Up Required

Q9) Please record: Recommendations and follow up actions required, including any referrals required (and who is responsible for the action)

Last saved by: 2340 Last saved when: 12/05/2017 2:22:00 PM [Save](#) [Save - Back to class list](#) [Delete](#) [Save - Go to Part 2](#)

Approvals

- | | |
|------------------------------|--|
| 1 Head Teacher/Principal | <input checked="" type="checkbox"/> School Read Write User: 2340 15/05/2017 4:16:00 PM |
| 2 District Education Officer | <input type="checkbox"/> Not Approved |
| 3 SEO Special Ed | <input type="checkbox"/> Not Approved |
| 4 Finance | <input type="checkbox"/> Not Approved |

Student Details For: **Angela [REDACTED]** ID Student ID: **8 [REDACTED]** 1 Date of Birth: 26 [REDACTED] 2000

Basic Information

Subjects

Home Life

Function/Disability

Drug Activity

Move/Remove

LANA

Attendance

Fees

Financial Assistance

Health

Student Record

Transf Letter

Download a printable copy of the **Student Learning Profile** form [HERE](#)

Download a printable copy of the **Consent Form** from [HERE](#) (required if clinical, diagnostic, treatment information is uploaded)

Student Learning Profile - part 1 (Functional Assessment and Learning Support Needs)

	Date Form Completed	Disability Assessment ID	CWD Overall	Seeing	Hearing	Gross motor actions	Fine motor actions	Speaking	Learning (general)	Learning (specific)	Behaviour/ Attention/ Socialisation	Emotions	DEO approved	
Select	28/10/2016	431	-	-	-	Yes	Yes	-	-	-	-	-	-	Print
Select	12/05/2017	2015	-	-	-	Yes	-	-	-	-	-	-	-	Print

Add New or Updated Student Learning Profile - part 1

Student Learning Profile - part 2 (Clinical, Diagnostic, Treatment and Referral Information)

Year Of Diagnosis	Practitioner	Clinical Diagnosis	Details if Other
Select 2017	CWMH practioners	Spina bifida	

Add New Diagnosis

Verification Forms

Click the button below to view verification forms for this student.

View Verification Forms

If the child's function has changed, please click **Add New or Updated Student Learning Profile**. This allows changes over time to be monitored. If however you made a mistake on the form and would like to change information, please click **Select** to the left of the **Date Form Completed** and amend the form.

Student Function/Disability Verification Forms

Use this page to upload and/or view verification forms for this student. **All activity is recorded. You are currently located at this address 101.181.22.214**

You can upload up to 3 documents. The following types of documents are supported: **PDF, JPG, PNG**

The maximum file size that can be uploaded is **2 MB**. You will not be able to upload a file larger than this size.

Step 1) Select the verification form:

Choose file

No file chosen

Step 2) Upload verification form:

Upload

Refresh

Research informed the system for disaggregation

- Use Student Learning Profile form, which includes the *CFM* plus Learning Support Needs, assistive devices, clinical data where available
- Included fine motor question
- “A little difficulty” replaced “some difficulty”
- Verification required, especially because of funding
- Children with “a little difficulty” or higher need referrals (if they haven’t already)
- Developed a ‘descriptors’ table, to provide a clear tool for teachers to refer to, to increase consistency in selection of response category
- Algorithm (that determines CWD) – includes learning support needs data

```

(
Q3_1 >= 3 OR
Q3_2 >= 3 OR
Q3_3 >= 3 OR
Q3_4 >= 3 OR
Q3_5 >= 3 OR
Q3_6 >= 3 OR
Q3_7 >= 3 OR
Q3_8 >= 3)

OR (Q3_9 = 'Daily')

OR (Q1_2 = 1 OR Q1_3_1 = 1)

OR ((
CASE WHEN Q3_1 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_2 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_3 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_4 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_5 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_6 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_7 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q3_8 = 2 THEN 1 ELSE 0 END) >= 2)

OR ((
Q3_1 = 2 OR
Q3_2 = 2 OR
Q3_3 = 2 OR
Q3_4 = 2 OR
Q3_5 = 2 OR
Q3_6 = 2 OR
Q3_6 = 2 OR
Q3_7 = 2 OR
Q3_8 = 2
) AND (
CASE WHEN Q4_1 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q4_2 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q4_3 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q4_4 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q4_5 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q4_6 = 2 THEN 1 ELSE 0 END +

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CASE WHEN Q4_7 = 2 THEN 1 ELSE 0 END +
CASE WHEN Q4_8 = 2 THEN 1 ELSE 0 END +

CASE WHEN Q4_1 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_2 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_3 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_4 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_5 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_6 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_7 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q4_8 = 3 THEN 1 ELSE 0 END +

CASE WHEN Q5_1 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_2 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_3 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_4 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_5 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_6 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_7 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_8 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_9 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_10 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_11 = 1 THEN 1 ELSE 0 END +
CASE WHEN Q5_12 = 1 THEN 1 ELSE 0 END +

CASE WHEN Q5_1 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_2 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_3 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_4 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_5 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_6 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_7 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_8 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_9 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_10 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_11 = 3 THEN 1 ELSE 0 END +
CASE WHEN Q5_12 = 3 THEN 1 ELSE 0 END

) >= 2
)

```

Algorithms –
who is counted

A film and a quiz