

# West Ferris Intermediate & Secondary School

We were asked to provide input into a school of 1500 secondary school students in regards to program and facilities. Our presentation reflects that request and should not be interpreted as an endorsement or denunciation.

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# West Ferris Intermediate & Secondary School

## Programming

- Maintaining current specialized programs (STEAM – WFISS, Arts Nipissing – Widdifield, French & IB – Chippewa)
- SHSM offerings should remain or be enhanced to keep the same opportunities available.
- ESL classes
- Wider variety of course offerings
- Full slate of Essential/Workplace level courses

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# West Ferris Intermediate & Secondary School

## Timetabling

- In February students choose courses for the next year based on the Course Calendar
- Courses are offered based on compulsory needs, elective choices, past enrolment, interest, specific programming (eg. SHSM) or new offerings by the ministry
- course selections are entered into the central database (*Trillium*)
- the board calculates the amount of staffing the selections allow – classes have a maximum size allowance (ex. Grade 11 college classes max. 27, Grade 11 university classes max. 32, Applied Grade 10 classes max. 25)
- 1 full time teacher = 6 sections

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## Current Timetabling Challenges

- Mandatory courses required for students (*ex. English, Biology, Math, Science*)
- Offering choice of elective courses (*ex. grade, stream, subject area, program*)
- When too few students sign up for a course it is cancelled; students must decide what their next choice may be
- The smaller the school, the fewer the options in course selection and less variety as to when they are offered

## Current Timetabling Challenges

- Conflicts for students
- Choice for students
- Staffing constraints

## Timetabling Examples

What does a secondary school timetable look like? It varies depending on:

- school size
- diversity of program
- course offerings
- program offerings
- teacher qualifications

# School Size ~ 350 students

Course Codes

Period 1

101PLC-1 (00)	NG1L/GPP3OL (00)	1KPF-S1P1-01 (00)	1MEL3E/4E-01 (00)	PPL1OF/2OF-0 (00)
AV101-C-2 (00)	CGC1D1-01 (00)	CHV2O5-02 (00)	COOP1C-01 (00)	COOP1C-TA (00)
COOP1D-11 (00)	COOP1D-TA (00)	COOPQ1-01 (00)	ENG2L1-01 (00)	LIB (00)
LLS1O1-C-1 (00)	MCR3U1-01 (00)	MPM2D1-01 (00)	NRG5C8-01 (00)	NRG5E8-01 (00)
NRG5U8-11 (00)	RCR1O1-01 (00)	SBI3C1-01 (00)	SBI3CC-01 (00)	SBI4U1-01 (00)
SNC2P1-11 (00)	SPECED-01 (00)	TFR4C1-01 (00)	TGJ3M1-01 (00)	TMW4E1-01 (00)
TTJ2O1-C-1 (00)	VMCF3M-01 (00)			

Total sections per period: 35

Period 2

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Total: 3:

102PLC-1 (00)	1CLU3E/3M-01 (00)	1FSF3U/4U-01 (00)	1KGW-S1P4-01 (00)	1PAF3O/4O-0 (00)
PAI3O2/4C-2-0 (00)	CGC1P1-01 (00)	CHC2D1-01 (00)	CHV2O5-01 (00)	COOP1C-02 (00)
COOP1C-TB (00)	COOP1D-01 (00)	COOP1D-TA (00)	COOPQ1-01 (00)	ENG3C1-01 (00)
ENG3CZ-11 (00)	ENG4U1-01 (00)	GUI (00)	HIF1O1-01 (00)	HSB4MD-TC (00)
LLS1O2-C-1 (00)	MBF3C1-01 (00)	NRG5A8-01 (00)	RCR3O1-01 (00)	SCH3U1-02 (00)
SHSM (00)	SNC1D1-01 (00)	SNC2D1-01 (00)	SPECED-02 (00)	VMAP4C-01 (00)
YAM4T1-11 (00)	ZHS4T2-01 (00)			

One Grade 11 College English Class offered

Period 3

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3

103PLC-1 (00)	1SPH3U/4C-01 (00)	1KEN-S1P3-01 (00)	1HF4U/MCT4C- (00)	PPL1OW/2OM-C (00)
IPPI2O1-11 (00)	COOP1D-02 (00)	AVI2O1-01 (00)	CHY4U1-01 (00)	COOP1C-03 (00)
COOP1C-01 (00)	ENG1D1-01 (00)	COOP1D-TC (00)	COOP1Q-01 (00)	COOPQ1-01 (00)
COOP1C-01 (00)	LIB (00)	LLS1O3-01 (00)	MAP4C1-01 (00)	GUI (00)
HPC3O1-11 (00)		LLS1O3-01 (00)	MAP4C1-01 (00)	MAT1L1-01 (00)
MFM1P1-11 (00)	RCR3O1-01 (00)	SBI3U1-01 (00)	SNC1DC-TC (00)	SNC1DD-TC (00)
SPECED-33 (00)	SST (00)	TFJ2O1-01 (00)	TGJ2O1-01 (00)	VAVI2O-01 (00)
VBBB4M-11 (00)				

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Total: 3:

Period 4

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4

104PLC-11 (00)	1AMU3M/4M-01 (00)	1KBB-S1P2-01 (00)	PAI1O2/2O2-0 (00)	AVI1O1-01 (00)
CHA3U1-11 (00)	CHC2P1-01 (00)	COOP1C-04 (00)	COOP1C-MD (00)	COOP1D-02 (00)
COOP1D-MD (00)	COOP1D-TC (00)	COOPQ1-01 (00)	ENG2D1-01 (00)	ENG3U1-01 (00)
ENG4C1-11 (00)	FSF2D1-01 (00)	GUI (00)	LIB (00)	LLS1O4-01 (00)
MBF3C1-12 (00)	MPM1D1-01 (00)	OLC4O1-01 (00)	PAF3OC-MD (00)	RCR4O1-01 (00)
SCH4U1-11 (00)	SNC1DC-TC (00)	SNC1DD-TC (00)	SPECED-07 (00)	SST (00)
TCJ2O1-11 (00)	TGJ4M1-01 (00)	TU1O1-01 (00)	VAVI2O-01 (00)	

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Total: 3:

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5

RCR5O1-11 (00)				
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Total:

# School Size ~ 800 students

Master Schedule by Block

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Track: 9-12

Semester: 2

Term:

Period 1

Block	Classes	Class Size
1	1 MEL3E4E-01 (17)	1 PAF3O4OF (22)
	_COOP2_D_A (00)	_COOP2_D_A (15)
	1_KEN_B2 (08)	1_KEN_C2 (07)
	AVI1O1-02 (27)	AWA2O1-03 (22)
	ENG3U1-03 (28)	FIF2DF-01 (16)
	GUID-04 (00)	GUID-10 (00)
	LWSBD1-01 (17)	MBF3C1-02 (21)
	NOSHOW-02 (05)	PPL2OB-02 (26)
	SALEP2-01 (04)	SALEP2-02 (00)
	SNC1DF-02 (22)	SNC2D1-03 (27)
	STDYSR-01 (42)	TCJ2O1-01 (20)
	VBAT4M-01 (01)	VCIA4U-01 (00)
	VSPH4C-01 (00)	WRK5O1-05 (00)
	WRK5OP-05 (00)	WRK5OY-01 (00)

Total: 69

2	ENG4EOLC-0 (23)	1 EWC4C4U-02 (28)
	_COOP2_C_P (01)	_COOP2_D_A (15)
	_COOP2_P_P (01)	1_KEN_D2 (09)
	1_KSN_C2 (00)	ADA2O1-01 (18)
	BTT1O1-02 (26)	CGC1D1-04 (20)
	ENG3C1-03 (19)	ENG4U1-04 (26)
	GUID-11 (00)	HFN2O1-01 (18)
	MFM1P1-02 (21)	MFM2P1-03 (24)
	PAF4O1-02 (19)	PLF4C1-01 (23)
	SALEP2-01 (04)	SALEP2-03 (00)
	SPH3U1-01 (28)	SST-05 (00)
	VGLC2O-06 (01)	VHZT4U-06 (00)
	WRK5O1-06 (00)	WRK5O2-03 (00)
	WRK5OY-01 (00)	ZIK4T1-01 (20)

Total: 69

Total sections per period: 69

Gr 11 College English offered 2 times

Total Students in Class

Period 2

Eng Per 4

# School Size ~ 1400 students

1	1ALTED-15 (24)	1ALTED-25 (11)	1ALTED-27 (11)	1AMI34M1-01 (23)	1CGC1PNW-01 (12)
	1COOPC-25 (04)	1COOPC-S5 (00)	1COOPC-V5 (04)	1COOPC-W5 (02)	1COOPD-B3 (00)
	1COOPD-23 (07)	1COOPD-S3 (06)	1COOPD-V3 (09)	1COOPD-W3 (08)	1COOPQ-QV (00)
	1COOPT-3T (00)	1COOPX-B3 (00)	1COOPX-P3 (07)	1COOPX-S3 (07)	1COOPX-V3 (07)
	1COOPX-V3 (08)	1COOPY-VY (00)	1KSNAG-01 (05)	1KSNAG-02 (08)	1KSNAG-03 (04)
	1KSNAG-34 (07)	1SNC2LNW-02 (08)	1TDJ340MW-0 (18)	1TTJ4CE8W-01 (14)	ADA1O1-02 (21)
	AVI2O1-1 (26)	AWA3O1-02 (27)	BBI2O1-02 (20)	CGC1D1-04 (25)	CGC1DF-01 (26)
	CGC1P1-33 (21)	CHC2D1-03 (19)	CHC2P1-03 (22)	CHV2O5-07 (21)	ENG1D1-04 (25)
	ENG1DA-31 (21)	ENG1P1-03 (23)	ENG3C1-04 (24)	ENG3U1-04 (24)	ENG4U1-03 (29)
	FSF1P1-13 (20)	GLC2O5-08 (20)	GUID-04 (00)	GUID-21 (00)	HFN2OW-03 (20)
	HHS4M1-32 (28)	HIF1O1-04 (15)	HLS3O1-02 (25)	INFOSE-04 (00)	MBF3C1-03 (24)
	MCF3M1-31 (28)	MCR3U1-03 (27)	MEL4EW-01 (15)	MFM2P1-04 (24)	MPM2D1-03 (28)
	NOSHOW-02 (00)	PPL1OG-05 (13)	PPL3O1-03 (25)	PPL4O1-03 (22)	PROGEX-02 (01)
	SCH3U1-33 (28)	SCH4U1-02 (19)	SLP2X1-01 (01)	SNC1D1-04 (24)	SNC1P1-03 (20)
	SNC2D1-34 (25)	SST0X0-04 (00)	STUDY-05 (67)	TCJ2OW-03 (18)	TCJ3CW-01 (18)
	TFJ3CW-36 (20)	TGJ2OW-02 (16)	TPJ4CW-01 (13)	TXJ3EW-02 (10)	ZLEARN-10 (02)
	ZLEARN-16 (00)	ZSM4OV-01 (00)			

Period 1

Total sections per period: 82

Total: 82

2	1ALTED-36 (25)	1ALTED-26 (11)	1WD4WM3M1-1 (19)	1COOPC-B6 (00)	1COOPC-P6 (05)
	1COOPC-S6 (04)	1COOPC-V6 (01)	1COOPC-W6 (06)	1COOPD-B3 (00)	1COOPD-P3 (07)
	1COOPD-S3 (06)	1COOPD-V3 (09)	1COOPD-W3 (08)	1COOPQ-QV (00)	1COOPT-ST (00)
	1COOPT-1S (00)	1COOPX-B3 (00)	1COOPX-P3 (07)	1COOPX-S3 (07)	1COOPX-V3 (07)
	1COOPX-V3 (08)	1COOPY-VY (00)	ENG2LPNW-0 (18)	1FEF34UF-02 (28)	1KHIAG-01 (05)
	1KHIAG-32 (05)	1KHIAG-03 (09)	1KHIAG-04 (06)	1TTJ4CE9W-01 (10)	ADA2O1-03 (19)
	ADA3O1-32 (26)	AVI1O1-04 (25)	BAF3M1-02 (16)	BTT1O1-02 (22)	CGC1D1-05 (24)
	CHC2D1-04 (27)	CHC2DF-01 (27)	CHC2P1-04 (22)	CHV2O5-11 (22)	
	ENG2D1-04 (31)	ENG3C1-05 (18)	ENG4C1-04 (18)	ENG4C1-07 (13)	
	GLC2O5-12 (25)	GUID-05 (00)	GUID-10 (00)	GUID-16 (00)	GUID-22 (00)
	HIF1O1-15 (23)	HIP3EW-02 (15)	HPC3O1-02 (27)	HSP3M1-02 (28)	HZT4U1-01 (32)
	ICS2OW-31 (16)	INFOSE-05 (00)	MAP4C1-03 (21)	MBF3C1-04 (25)	MCV4U1-01 (12)
	MFM1P1-33 (23)	MHF4U1-03 (20)	MPM1D1-03 (30)	NOSHOW-02 (00)	PPL1OB-04 (27)
	PPL2OB-32 (27)	PPL3O1-04 (27)	PPL4O1-04 (11)	PROGEX-02 (01)	SBI4U1-02 (23)
	SCH4C1-32 (18)	SLP2X1-01 (01)	SNC1D1-05 (23)	SNC2P1-03 (23)	SPH3U1-02 (23)
	SST0X0-15 (00)	STUDY-06 (09)	TCJ3CW-02 (18)	TFJ4CW-03 (12)	TJ1OW-03 (16)
	TMJ3MW-02 (12)	TWJ3EW-02 (21)	TXJ2OW-02 (14)	ZLEARN-04 (03)	ZLEARN-17 (00)
	ZSM4OV-31 (00)				

Period 2

Gr 11 College English offered 3 times

Total: 83

ENG3C Period 4

# West Ferris Intermediate & Secondary School

## Grade 7 & 8 Perspective

### Physical Structure – Specific to Intermediate

- completely separate wing for academic rooms, including resource/student success hubs with secure office area for confidential documents
- lockers for students
- staff room with washrooms
- separate storage/department rooms
- classrooms: large with shelving around the edges.
- separate PA system and bells
- computer access, student council room, kitchen attached to the cafeteria, dedicated section of the cafeteria
- common areas would have dedicated space for intermediate including: 4 science labs, tech shop a fully stocked quad gym, dance studio, fitness room, music room on the same level and with access to the auditorium

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# West Ferris Intermediate & Secondary School

## Grade 7 & 8 Perspective

### Physical Structure – Shared

- library, auditorium large enough for the whole school
- outdoor space for breaks – basketball court, fenced area, playing field, seating
- baseball diamond, soccer field, turf field and rubberized track
- community garden
- access to pool, arena, tennis court, green house

### Schedule (structure of the day)

- our balanced day: 2 hours, break, 2 hours, break, 1 hour
- split 7 & 8 @ lunch, supervision in cafeteria and in outdoor space (dedicated gym could be used for intermurals/raindays)
- no breaks between classes

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# West Ferris Intermediate & Secondary School

## Grade 7 & 8 Perspective

### Programming (academics)

- dedicated administrators to deal with the intermediates students & PD
- dedicated intermediate attendance and secretary, CDCs and EA's
- specialty teachers: French, ESL, music, phys ed, art, science, art, tech (shop), foods, math, core (Eng/his/geog), spec. ed., drama, outdoor education, dance, sports programming

### Extra-curricular

- basketball, volleyball, softball, soccer, badminton, track & field, cross country ski, hockey, tennis, lacrosse, music (band), dance, anime, chess club, robotics, theatre, student council
- 7 & 8's in NDA sports – possible?

### Also:

- uniforms – affordable, distinct from secondary uniform
- gym uniforms

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# West Ferris Intermediate & Secondary School

## Secondary Science

### Programming & Physical Space

- Dedicated science labs to accommodate the number of sections of science running – in proximity to intermediate labs (cross-curricular)
- Currently split sections of many Science classes exist in order for classes to have the viable numbers to run(ex. Grade 9 Applied/Academic – separately they wouldn't have enough students to run – different types of learners not serviced as well as they could be. Grade 12 University Physics/College Physics – very different courses – not an ideal split
- One school would provide the numbers required not to have to run less than ideal split classes.
- Science classes would be taught by qualified science teachers at all levels

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## Physical and Health Education/Athletics/Intramural Program Needs

- gym space for 40 sections (5 classes per period on a 4 period schedule or 4 classes per period on a 5 period schedule)
- variety of types of Healthy Active Living Classes
- Outdoor Education Program
- alternative fitness areas to use – ex. cardio and weight room (cannot replace but supplement the gym space)
- If 7/8 is in school you would need to have a separate area for them to play that doesn't interfere with other areas or create safety issues.

## Physical and Health Education/Athletics/Intramural Program Concerns

- Will finances support a plan to have all of the things we are currently offering on such a large scale?
- Do new school builds budget money to store all of the equipment necessary to run all these programs? (equipment rooms, change rooms, storing football equipment, hockey bags, equipment returned, and stadiums)
- Phys. Ed. Department Heads need to give input before a building plan is selected
- NDA Format: the NDA league format will change significantly

# West Ferris Intermediate & Secondary School

## Physical and Health Education/Athletics/Intramural Physical Logistics

- 12 gym spaces (10 gyms + 2 alternative): triple gym allows space for bleachers on 3 sides similar to WFISS
- turf soccer/football field
- secondary practice field
- 8 lane track, jumping event areas for triple jump, long jump, high jump and pole vault, throwing areas for javelin, discus, shot-put
- weight room that supports minimum of 10 lifting platforms
- fitness Studio that supports alternative types of exercise
- two Health Rooms

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## Physical and Health Education/Athletics/Intramural Physical Logistics

- change rooms: 8 change rooms + 2 large change rooms for football/soccer (open to exterior for outdoor sports changes)
- outdoor field house
- equipment shed
- stadium (built into the side of the school)
- shared Phys. Ed. office space +coaches/teacher change rooms
- multiple supervision improvements with the addition of windows from Phys. Ed. offices and alternative fitness centers/ lounge area/ study areas
- creating relationships with community recreation facilities to share facilities (YMCA/Memorial Gardens Location or Omischl Complex)

# West Ferris Intermediate & Secondary School

## Physical and Health Education/Athletics/Intramural Other Considerations (+ & -)

- programs will be offered in small spaces (single gym vs. triple gym)
- less need for split sections and more variety
- turf field has less maintenance and extends the usable time outside decreasing the stress on the indoor facilities
- more variety in athletic teams
- increased coaching quality - eg. Track and Field (coaches for all disciplines in one school)
- intramural program for students not on school teams
- multipurpose facilities such as “cafetorium” or cafe/gym set ups do not work in reality as well as they do on paper
- decrease the amount of varsity ONLY teams and provide junior and senior teams for all sports

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# West Ferris Intermediate & Secondary School

## Physical and Health Education/Athletics/Intramural Other Considerations (+ & -)

- many large schools share facilities with the community to keep maintenance costs down, bring money in to finance facilities
- our schools are currently used regularly through the week to host a number of club teams and are needed by our community (Spartans Basketball, North Bay Selects Soccer, Nipissing Wild and Bull-dogs football etc...)
- Perhaps there is a better location? (Rink, High School, Omischl on Lakeshore)

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# West Ferris Intermediate & Secondary School

## Tech Department - Stats and Projections

### Grade 9

- At WFSS 74% of Grade 9's take Integrated Tech
- New Build – rough estimate is 50% will take Integrated Tech
- (50% of 350) – 8 Sections
- Students rotate through –design, wood, machining, transportation, foods, (esthetics)
- 17 days for each section

### Grade 10

- at WFSS – There are 6 sections of Grade 10 Tech based on 4 sections of TIJ (50% increase)
- new build ~ 8 sections of TIJ would become 12 in Grade 10 (2 Wood, 2 Design, 2 Machining, 2 Foods, 2 Transportation, 1 Esthetics or 1 Green Industries)

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## Tech Department - Stats and Projections

### Grade 11

- At WFSS – There are 8 sections of Grade 11 Tech based on 6 sections of Grade 10 Tech (25% increase)
- New Build ~ 12 sections of 10 Tech would become 15 in Grade 11 (ex. 2 Wood, 2 Construction, 1 Design, 2 Foods, 1 Machining, 1 3D Printing, 1 Transportation, 2 Small engines, 1 Esthetics or 1 Green Industries)

### Grade 12

- At WFSS – There are 6 sections of Grade 12 Tech based on 8 sections of Grade 11 Tech (25% decrease)
- New Build ~ 15 sections of Grade 11 Tech would become 12 in Grade 12 (ex. 1 Wood, 2 Design, 2 Machining, 2 Foods, 2 Transportation, 1 Construction, 1 3D printing, 1 Esthetics or 1 Green Industries)

# West Ferris Intermediate & Secondary School

## Tech Department – Sections & Wishlist

- 47 sections are required to maintain course offerings
- staffing complement of 8 technical teachers
- technical facilities in Wood Working, Construction, Small Engines, Transportation, Machining / Welding, Foods, Esthetics

### Wish List

- Revival of 8 Credit Construction Program
- Esthetics Program
- Green Industries / Horticultural space
- Maker Space / Robotics
- Motion Control / Automation / Hydraulics
- Auto body / paint facilities
- Hospitality centre – cooking, sales, service

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# West Ferris Intermediate & Secondary School

## Resource and Student Success

- Full complement of Essential and Workplace level courses at all grade levels
- Comprehensive TIL programming
- Fully staffed, separate (but close proximity) Resource and Student Success Rooms to service all learners, with consistent staffing of these areas
- Computers dedicated to these areas
- Centrally located
- Community partners meeting space/offices nearby (Police liaison officer, HANDS etc.)
- CDC offices located nearby

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# West Ferris Intermediate & Secondary School

## Arts

### Dramatic Arts

- full sized dedicated theatre/dramatic arts class space; not a 'cafetorium' style theatre
- seats at least 800 - so that assemblies can be done in shifts
- all digital (LED) electrical infrastructure
- proper lighting and sound booth
- an adjoining dramatic arts classroom with class desks and chairs
- ideally designed by a theatre-architect to ensure proper lighting angles.

### Music

- Dedicated music rooms near to school-theatre (adjoining room, ideally.)
- Wash stations and practice rooms

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# West Ferris Intermediate & Secondary School

## Arts

### Visual Arts

- Large, open visual arts classrooms with adequate sinks for clean up and large enough for students to work on different sorts of projects, large and small.
- should have plenty of storage shelves and cupboards for student work and teacher exemplars
- need a projection screens of some sort.
- kiln room, large storage room, and dark room
- access to a lab (preferably Mac) for Photography and other media arts based courses
- Intermediates need to have their own arts space as well (share the facilities like the kiln and darkroom)

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# West Ferris Intermediate & Secondary School

## **Business/Computers**

- Retail space - school store, glass front windows for retail display, point of purchase cash register counter, display shelving, centralized location within the school - high visibility for students, staff and school visitors.
- Group-based learning spaces with built-in technology (ie. video/audio conferencing - with business/community partners, wireless, electrical charging stations at group tables for laptops/mobile devices).

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# West Ferris Intermediate & Secondary School

## Library

- MacBook carts or a separate computer lab – portable and stationary technology that belongs solely to the library
- An iPad bar – iPad that are locked into place and are kept in the library but are accessible to all
- Student cubbies to leave items that can't be brought into the library - backpacks, food etc.
- Multiple book look up computers
- Must be able to control lighting in different spaces – be able to dim some areas while others stay bright
- Green space in the Library – a living wall to help with mental health
- Huge windows for natural light
- Have Library centrally located on the main floor
- Student gallery to display student work.
- Accessible outlets – many outlets
- Attached washrooms

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# West Ferris Intermediate & Secondary School

## General Design Thoughts

- Outdoor classroom/learning space(s)
- Window walls - solar energy, less lighting costs
- Electrical charging stations in cafeteria, libraries and atrium spaces for mobile devices
- Each classroom should have the following: sufficient power outlets in the walls to accommodate different classrooms setups. Ceiling Ethernet jack to connect the Apple TV (it has been proven that Apple TV's connected to the wireless are very unstable and unreliable)

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# West Ferris Intermediate & Secondary School

The above is not a comprehensive planning list; it is only a starting point. Input from all staffing areas (custodians, teachers, librarians, IT, administrative departments etc.) should be considered if the decision for a new build is accepted.

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