



# HOLY CROSS HIGH SCHOOL

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**IN CRUCE SALUS**

Dear Reader

I trust you are well and you it continues to be the case through this world crisis. I present here our plan for our “social distancing and digital solution strategy”. This first letter indicates the following advantages and reasons for our strategy:

- Serving all our learners – none to be turned away because of restructuring.

Indeed, there are fears that our teaching staff may become smaller and this may have a ripple effect in the size of the school. We wish, however, to continue delivering education to as many as we can. Our approach allows for fair sized classes but fewer teachers overall.

The idea is that in grade 8 for example the teacher teaches all English to all the classes at the same time. In one case she is in the venue Infront of the learners and in the classes next door the lesson is being broadcast. In the additi0onal classes either a teacher assistant or another subject teacher who will be able to carry on with administrative tasks while the learners participates via the digital interface. Their purpose is to maintain good order and facilitate questioning via the broadcast.

Thank you for taking the time to read this proposal. I understand in this time that despite us being in lock down we’re busier than ever before.

We find ourselves at a crossroads and need to ask for help. We as a school and an organisation need to adapt or face a rather dark fate. The Covid-19 pandemic has destroyed any planning and budget anticipation for the foreseeable future. Being a private school that serves an impoverished community school fee payment has always been a contentious issue. We manage a fine budget and within that have been able to keep ourselves at the forefront of the digital space in our industry despite limited income.

Due to the nature of the current pandemic and any logical prediction for the foreseeable future we find ourselves needing to adapt our teaching so as best to serve our learners and community. So far this is what we have accomplished:

- Since the lockdown began, we created a massive online repository of information for all grades and subjects within our school. We are cognizant of the fact that such websites exist, but we created our own to cater

specifically to our learners and those within the Catholic school framework. <https://holycrosshigh.co.za/> and select “school online”.

- We have now begun adopting grade by grade the junior schools to accommodate our sister schools who do not have the capacity to create such a resource themselves.
- The IT team has been available 24/7 serving other schools in our framework to ensure principals are communicating, board members are meeting.
- Our teachers have adapted phenomenally, learning how to record lessons, adapting content to suit WhatsApp, using google classroom.
- Assessment is happening – learners are submitting work through digital channels; orals are being recorded and sent to teachers, those with limited resources are being told “do it on paper and send a photo”.

We have accommodated, adapted, and evolved!

When the schools reopen, we are facing a new challenge. The government is enforcing recommendations to create a safe environment for the learners and educators. These measures include:

- Social distancing – whereby each learners desk is 1.5m away from any other desk.
- Learners needing to stay in one locale throughout the day.

The school is looking at downsizing, already as it stands staff is on reduced pay. Despite this bleak situation the teaching continues, because that is what we do. We are trying to upgrade more of our infrastructure to accommodate these changes. As you are fully aware within your industries this is not a free activity. All planning has been effectively for essentials with no bells and whistles. The focus is on practical use with longevity in mind.

The strategy was built on the following critical points:

- Serving all our learners – none to be turned away because of restructuring.
- Accommodating all learners with reduced teaching contingent.
- Teacher teaching in one venue while same grade learners in other venues can observe and participate.
- Recording lessons to be made available to learners who are isolating at home or staying at home because they have the necessary infrastructure and academic ability to do so.
- Dynamically being able to change the recording and broadcast venues.

What we need is a video conferencing solution that is dynamic between 25 venues allowing broadcasting, recording and observing. As such we have decided upon using the DVR (Digital Video Recorder) component of our Ubiquiti network, it works on the local network thus being independent of the internet connection. It allows each locale to connect to another using a browser sourcing information from a local source. We already have the DVR in question which can host up to 20 cameras and would only need a second one in phase 5 to carry the additional cameras and share the load.

To date we have been investing in Ubiquiti Unifi equipment which provides exceptional service. Which is why we believe in continuing with the same provider. We have an account with scoop distribution allowing us to purchase network infrastructure at dealer pricing. All installation is done in house, the only outside service is cabling which is done by our resident maintenance contractor who work for an excellent rate at an excellent rate. Connections and configuration are in-house.

The Project has been broken up into 5 phases. Each phase accommodating a grade descending from Gr12 at an interval of 2 weeks funding permitting.

Any assistance would be appreciated, the reality is we must fund and support ourselves which is why we reach out to you. Government schools ensure that they are catered for and enjoy using the phrase “you’re private you don’t get

“at meetings and despite this we excel, and our learners excel. There is a distinctive difference between a child who has attended a Catholic institution and those who haven’t. Ours are grounded and have a sense of spirituality. At 12 each day hearing the scraping of chairs as neighbouring classes rise with you to say The Angelus is inspiring. Regardless of their background they all participate. We must do what we can to ensure the future of our schools. This initiative is not only to survive but to thrive in a changing environment.

Apart from this project we are creating two recording spaces within our school by repurposing equipment we already have. This can be used by teachers who need to record lessons for their learners for distance learning. These will be opened up to our Sister Primary schools as well to allow them to share in our resources. To reach their learners as well. Our main goal is to try break into a sphere of education that we need to as a school to survive, inevitably we might be reaching more Catholic learners’ country wide.

We are fully aware that the entire economy is in dire straits. There is not an industry that isn’t suffering now. Business owners are absolutely prioritising their expenditure to survive, not one person or organisation can meet our request.

What we are asking is that can you please help us out with a phase or component?

Can you ask people that you know possibly on our behalf that you think might be able to help?

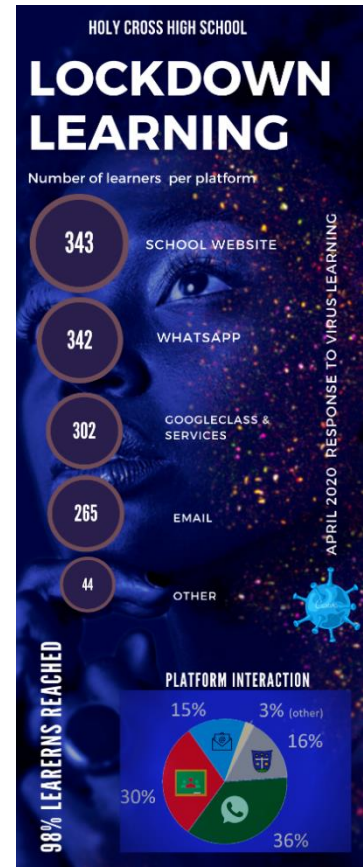
Yours in good Faith



**Mr MF Fouché, Principal**

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## Phase 1 – Gr 12

### Requirement – Minimum venues

Gr 12's will be allocated to the hall in a setting similar to their final exam layout. The hall allows for a group of this size to be accommodated in one venue.

### Requirement – Technology

Projector	Available
Computer for display	Available
Cameras – 2	
i. Class observation	Needed
ii. Recording of lesson	Needed
24 Port POE switch (To replace the one in the comp room which will be relocated to the Spirit centre for phase 2)	Needed

## Phase 1 – Cost

Cameras	2	R 1 195,00	R 179,25	R 2 748,50		
Switch	1	R 6 095,00	R 914,25	R 7 009,25		
Cable	1	R 2 150,00	R 322,50	R 2 472,50		
Patch panel	1	R 395,00	R 59,25	R 454,25		
Surface Mount box	1	R 29,00	R 4,35	R 33,35		
Keystone	2	R 12,00	R 1,80	R 27,60	R 12 745,45	
				Total		R 12 745,45

## Phase 2 – Gr 11

### Requirement – Minimum venues

Gr 11's will be allocated to the Spirit Centre and second floor of Hall. 3 Venues

#### Venue 1 – Miss Classen (Spirit centre)

##### Requirement – Technology

Projector	Available
Computer for display	Available (Laptop)
Cameras – 2	
i. Class observation	Needed
ii. Recording of lesson	Needed

#### Venue 2 – Miss Pasquallie (Spirit centre)

##### Requirement – Technology

Projector	Available (Repurpose the TV from the conference room)
Computer for display	Available (Laptop)
Cameras – Class observation	Needed

#### Venue 3 – Miss Keeson (above Hall)

##### Requirement – Technology

Projector	Available (Sr Flora has offered her projector)
Computer for display	Available (repurposed from staffroom)
Cameras – Class observation	Needed

## Phase 2 – Cost

Item	Qty	Price	Vat		
Cameras	4	R 1 195,00	R 179,25	R 5 497,00	
Surface Mount box	3	R 29,00	R 4,35	R 100,05	
Keystone	6	R 12,00	R 1,80	R 82,80	
Trunking	1	R 500,00		R 500,00	R 6 179,85
Labour (days)	2	R 500,00		R 1 000,00	R 1 000,00
				Total	R 7 179,85

## Phase 3 – Gr 10

### Requirement – Minimum venues

Gr 10's will be allocated to the Science block. 3 Venues.

#### Venue 1 – Mr Musvavairi (Science block)

##### Requirement – Technology

Projector	Needed
Computer for display	Available
Cameras – 2	
i. Class observation	Needed
ii. Recording of lesson	Needed

#### Venue 2 – Mr Francis (Science block)

##### Requirement – Technology

Projector	Needed
Computer for display	Available (repurposed from staffroom)
Cameras – Class observation	Needed

#### Venue 3 – Mr Klaasen (Science block)

##### Requirement – Technology

Projector	Needed
Computer for display	Available (repurposed from staffroom)
Cameras – Class observation	Needed

## Phase 3 – Cost

Item	Qty	Price	Vat		
Cameras	4	R 1 195,00	R 179,25	R 5 497,00	
Cable	1	R 2 150,00	R 322,50	R 2 472,50	
Surface Mount box	3	R 29,00	R 4,35	R 100,05	
Keystone	6	R 12,00	R 1,80	R 82,80	R 8 152,35
Projector/TV	3	R 8 000,00		R 24 000,00	
Mounts	3	R 400,00		R 1 200,00	
Trunking	1	R 500,00		R 500,00	R 25 700,00
Labour (days)	3	500		R 1 500,00	R 1 500,00
				Total	R 35 352,35

## Phase 4 – Gr 9

### Requirement – Minimum venues

Gr 9's will be allocated to Building A. 5 Venues.

#### Venue 1 – Mr Mutandwa (A9)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – 2	
i. Class observation	Needed
ii. Recording of lesson	Needed

#### Venue 2 – Mrs Ludidi (A8)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – Class observation	Needed

#### Venue 3 – Miss Jackson (A7)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (repurposed from Comp room)
Cameras – Class observation	Needed

#### Venue 4 – Miss Nohiya (A6)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – Class observation	Needed

#### Venue 5 – Mr Ackerman (A5)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – Class observation	Needed



Phase 4 – Cost

Item	Qty	Price	Vat		
Cameras	6	R 1 195,00	R 179,25	R 8 245,50	
Surface Mount box	5	R 29,00	R 4,35	R 166,75	
Keystone	10	R 12,00	R 1,80	R 138,00	
Switch 16 Port	1	R 4 450,00	R 667,50	R 5 117,50	
Patch Panel	1	R 395,00	R 59,25	R 454,25	
Cable	1	R 2 150,00	R 322,50	R 2 472,50	R 16 594,50
Projector/TV	5	R 8 000,00		R 40 000,00	
Trunking	1	R 500,00		R 500,00	
Mounts	5	R 400,00		R 2 000,00	R 42 500,00
Labour (days)	4	500		R 2 000,00	R 2 000,00
				<b>Total</b>	<b>R 61 094,50</b>

## Phase 5 – Gr 8

### Requirement – Minimum venues

Gr 8's will be allocated to Building B. 5 Venues.

#### Venue 1 – Mr Khezgara (B1)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – 2	
i. Class observation	Needed
ii. Recording of lesson	Needed

#### Venue 2 – Mrs Andreas (B2)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – Class observation	Needed

#### Venue 3 – Mrs Smith (B3)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (repurposed from Comp room)
Cameras – Class observation	Needed

#### Venue 4 – Sr Flora (B4)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – Class observation	Needed

#### Venue 5 – Det room (B5)

##### Requirement – Technology

Projector/TV	Needed
Computer for display	Available (Laptop)
Cameras – Class observation	Needed

Phase 5 – Cost

Item	Qty	Price	Vat		
Cameras	6	R 1 195,00	R 179,25	R 8 245,50	
Surface Mount box	5	R 29,00	R 4,35	R 166,75	
Keystone	10	R 12,00	R 1,80	R 138,00	
Switch 16 Port	1	R 4 450,00	R 667,50	R 5 117,50	
Patch Panel	1	R 395,00	R 59,25	R 454,25	
Cloud key	1	R 3 295,00	R 494,25	R 3 789,25	
Cable	1	R 2 150,00	R 322,50	R 2 472,50	R 20 383,75
Projector/TV	5	R 8 000,00		R 40 000,00	
Trunking	1	R 500,00		R 500,00	
Mounts	5	R 400,00		R 2 000,00	R 42 500,00
Labour (days)	4	500		R 2 000,00	R 2 000,00
				Total	<u>R 64 883,75</u>



### Final Costs

	Networking and cameras	Projector/TV	Labour	
Phase 1	R 12 745,45	R -	R -	R 12 745,45
Phase 2	R 6 179,85	R -	R 1 000,00	R 7 179,85
Phase 3	R 8 152,35	R 25 700,00	R 1 500,00	R 35 352,35
Phase 4	R 16 594,25	R 42 500,00	R 2 000,00	R 61 094,25
Phase 5	R 20 383,75	R 42 500,00	R 2 000,00	R 64 883,75
<b>Total</b>				<b>R 181 255,65</b>

## Purchase List

Item	Qty	Price	Vat		
Cameras	22	R 1 195,00	R 179,25	R	30 233,50
Surface Mount box	17	R 29,00	R 4,35	R	566,95
Keystone	34	R 12,00	R 1,80	R	469,20
Switch 24 port	1	R 6 095,00	R 914,25	R	7 009,25
Switch 16 Port	2	R 4 450,00	R 667,50	R	10 235,00
patch panel	3	R 395,00	R 59,25	R	1 362,75
Cloud key	1	R 3 295,00	R 494,25	R	3 789,25
Cable	4	R 2 150,00	R 322,50	R	9 890,00
					R 63 555,90
Projector/TV	13	R 8 000,00		R	104 000,00
Mounts	13	R 400,00		R	5 200,00
					R109 200,00
					R172 755,90

## Supplier List

### Scoop Distribution



Ubiquiti UniFi Flex Camera IR 1080P | UVC-G3-FLEX

**Scoop SKU:** UVC-G3FLEX  
**CPT Stock:** 80 | **DBN Stock:** 10 | **JHB Stock:** 125  
**Total Stock:** 215  
[Learn More](#)

**Your Price Incl VAT:**  
**R1,725.00**  
**Dealer Excl:** R1,195.00

[Add to Cart](#)



Ubiquiti 16 Port Gigabit 150W PoE 2SFP UniFi Switch | US-16-150W

**Scoop SKU:** US16-150  
**CPT Stock:** 22 | **DBN Stock:** 10 | **JHB Stock:** 148  
**Total Stock:** 180  
[Learn More](#)

**Your Price Incl VAT:**  
**R6,395.00**  
**Dealer Excl:** R4,450.00

[Add to Cart](#)



Ubiquiti 24 Port Gigabit 250W PoE 2SFP UniFi Switch | US-24-250W

**Scoop SKU:** US24-250  
**CPT Stock:** 50 | **DBN Stock:** 17 | **JHB Stock:** 169  
**Total Stock:** 236  
[Learn More](#)

**Your Price Incl VAT:**  
**R8,795.00**  
**Dealer Excl:** R6,095.00

[Add to Cart](#)



Linkbasic 500M Drum Cat5e Solid UTP Cable

**Scoop SKU:** UTP-500  
**CPT Stock:** 36 | **DBN Stock:** 2 | **JHB Stock:** 25  
**Total Stock:** 63  
[Learn More](#)

**Your Price Incl VAT:**  
**R2,995.00**  
**Dealer Excl:** R2,150.00

[Add to Cart](#)



Linkbasic 24 Port Cat6 Rack Mount Patch Panel

**Scoop SKU:** LB-PP246  
**CPT Stock:** 196 | **DBN Stock:** 20 | **JHB Stock:** 462  
**Total Stock:** 678  
[Learn More](#)

**Your Price Incl VAT:**  
**R575.00**  
**Dealer Excl:** R395.00

[Add to Cart](#)



Linkbasic RJ45 Cat5e UTP Modular Plug

Scoop SKU: RJ-45  
CPT Stock: 38373 | DBN Stock: 5992 | JHB Stock: 9505  
Total Stock: 53870  
[Learn More](#)

Your Price Incl VAT:  
**R1.50**  
Dealer Excl: R0.95

[Add to Cart](#)



Linkbasic Cat5e Double Surface Mount Box

Scoop SKU: LB-SM2  
CPT Stock: 107 | DBN Stock: 28 | JHB Stock: 491  
Total Stock: 626  
[Learn More](#)

Your Price Incl VAT:  
**R40.00**  
Dealer Excl: R29.00

[Add to Cart](#)



Linkbasic Cat5e UTP Keystone Jack

Scoop SKU: LB-KEY45  
CPT Stock: 90 | DBN Stock: 50 | JHB Stock: 302  
Total Stock: 442  
[Learn More](#)

Your Price Incl VAT:  
**R18.00**  
Dealer Excl: R12.00

[Add to Cart](#)



Ubiquiti UniFi Cloud Key G2+ Controller 1TB HDD | UCK-G2-PLUS

Scoop SKU: UCK-G2PLUS  
CPT Stock: 13 | DBN Stock: 6 | JHB Stock: 114  
Total Stock: 133  
[Learn More](#)

Your Price Incl VAT:  
**R4,695.00**  
Dealer Excl: R3,295.00

[Add to Cart](#)

The TV/ Projector will be purchased from most like Makro price not exceeding R8000. The advantage of the Tv vs the projector is better quality image sacrificing size, built in audio and internet connectivity in the TV. The average price of a projector is R6500, audio needs to be purchased additionally though. Savings will be passed back to donor.

Trunking covers the cost of plastic covering, fixatives and fasteners. Savings will be passed back to the donor.