

Application Form CLASSworks



Please complete this form as accurately as possible and hand it over at our office, or send it to the Viafrica Foundation by:

Email: tanzania@viafrica.org

Mail: P.O. Box 7809, Moshi, Kilimanjaro

For questions or remarks:

Tel: 027 – 27 50 114 or 0776 – 770 688

After filling this form you are welcome at our office to discuss your application for our CLASSworks project. Please contact us by:

Landline: 027 – 27 50 114

Cell phone: 0776 – 770 688

School information	
Name of school:	
Physical address:	
Zip / postal code:	
Village / City:	
District:	
Region:	
P.O. Box:	
P.O. Box Zip Postal code:	
P.O. Box Village / City:	
Telephone:	
Fax:	
E-mail:	

Directions to the school

Contact persons	
Headmaster / headmistress:	
Phone number:	
Second master / mistress:	
Phone number:	
IT teacher #1	
Phone number:	
IT teacher #2	
Phone number:	

General information																			
Number of students:	Girls:	Boys:																
Number of teachers:																			
Number of staff:																			
Type of school:	<input type="checkbox"/> Public school <input type="checkbox"/> Community school <input type="checkbox"/> Private (non-religious) <input type="checkbox"/> Catholic Diocese <input type="checkbox"/> Lutheran Diocese <input type="checkbox"/> Muslim school																		
Level:	<input type="checkbox"/> O-level <input type="checkbox"/> A-level																		
Type:	<input type="checkbox"/> Boarding school : number of boarding scholars: <input type="checkbox"/> Day school: number of day scholars:																		
School fee per year:	Boarding scholars: TZS Day scholars: TZS																		
Classes:	<table border="0"> <tr> <td><input type="checkbox"/> English</td> <td><input type="checkbox"/> History</td> </tr> <tr> <td><input type="checkbox"/> French</td> <td><input type="checkbox"/> Geography</td> </tr> <tr> <td><input type="checkbox"/> Swahili</td> <td><input type="checkbox"/> Biology</td> </tr> <tr> <td><input type="checkbox"/> Mathematics</td> <td><input type="checkbox"/> Economics</td> </tr> <tr> <td><input type="checkbox"/> Physics</td> <td><input type="checkbox"/> ICT</td> </tr> <tr> <td><input type="checkbox"/> Chemistry</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> History</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Geography</td> <td><input type="checkbox"/></td> </tr> </table>			<input type="checkbox"/> English	<input type="checkbox"/> History	<input type="checkbox"/> French	<input type="checkbox"/> Geography	<input type="checkbox"/> Swahili	<input type="checkbox"/> Biology	<input type="checkbox"/> Mathematics	<input type="checkbox"/> Economics	<input type="checkbox"/> Physics	<input type="checkbox"/> ICT	<input type="checkbox"/> Chemistry	<input type="checkbox"/>	<input type="checkbox"/> History	<input type="checkbox"/>	<input type="checkbox"/> Geography	<input type="checkbox"/>
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School description	
Number of classrooms:	
Number of staffrooms:	
Number of dormitories:	
Facilities at your school:	<input type="checkbox"/> Kitchen <input type="checkbox"/> Sports field <input type="checkbox"/> School shop <input type="checkbox"/> Auditorium <input type="checkbox"/> School car <input type="checkbox"/> Generator <input type="checkbox"/> Fixed telephone line / landline <input type="checkbox"/> Electricity <input type="checkbox"/> Photo copier <input type="checkbox"/> Internet connection <input type="checkbox"/> Land for cultivation <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Nearest town:	
Distance to this town:	

Computer education	
Does your school have experience in computer education?	<input type="checkbox"/> Yes,years <input type="checkbox"/> No
Where would you like the CLASSworks computers to use for?	<input type="checkbox"/> ICT-education <input type="checkbox"/> Administration <input type="checkbox"/> Library function <input type="checkbox"/> Supporting other classes / subjects <input type="checkbox"/> Internet cafe for community <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Do you have ICT teachers?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are you planning to use and follow the national ICT syllabus?	<input type="checkbox"/> Yes, because <input type="checkbox"/> No, because

Appendices

Preparing a computer classroom

This document has been put together to assist schools in Sub-Saharan Africa in the preparation of a classroom that can be used to conduct computer training. Earlier experiences in Tanzania, Uganda and Kenya have taught us there are some special areas we should have a good look at before we can start with the actual installation of the classroom.

These are:

- *Physical preparation:* Where a computer classroom differs from other classrooms
- *Electrical installation:* How to provide good and stable electricity to stop computers from ageing prematurely.

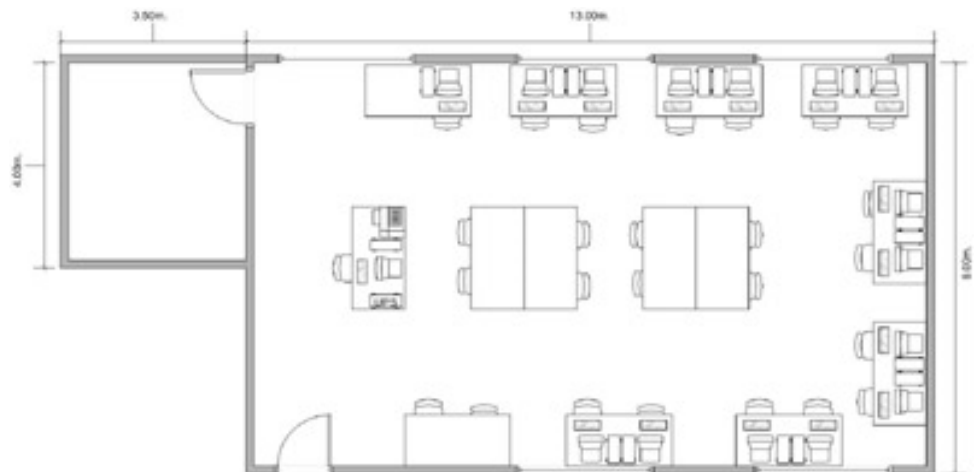
The following conditions have to be met before we consider you in our CLASSworks project:

The classroom should have:

Protection against bad weather conditions	<add pictures>
Proper roof (rain, sun)	
4 proper walls (dust)	
Fans (temperature)	
Protection against theft	
Proper locks on the doors	
Proper doors, preferably metal ones.	
Proper bars behind all windows.	
Night watchman (advisable)	
Good electrical conditions	
Facilitation for power and network cables (f.e. Trunking or holes in tables)	
2 power outlets per computer	
Seperate power line for the classroom (1 phase with a minimum of 16 Amp)	
Generator (advisable)	

<p>Stabiliser (output of 240 volt with a minimum of 5KvA (5000 VAh))</p>	
<p>UPS (Uninterruptable Power Supply) (given by Viafrica)</p>	
<p>Miscellaneous</p>	
<p>Proper desks for teacher, students and the printer and server, big enough for students and computers.</p>	

The following pictures gives you an idea how to place the tables in the classroom for efficient use: As a good starting point, a computer classroom needs the same facilities as any classroom; protection from rain, wind and sun; a desk for the teacher and desks for the students. Please make sure the desks are of sufficient size to enable the placement of a computer, monitor and keyboard and will still leave the student enough space to put down writing material and such. Some examples of how these desks can be placed can be found below.



In most cases, a single (large) desk will hold two sets of computer, monitor, keyboard and mouse so ten of those desks will suffice twenty computers. Additionally, a desk will be placed in 'front' of the computer room which will hold the central server and printer and will normally be used by the computer teacher.



To make sure the classroom will be suitable as a computer classroom,

some extra measures are needed:

- There should be sufficient *protection against outside dust*. Dust can easily get into the computer casings, causing faults after it settles on hot parts inside the computer. It can also block the ventilator openings, reducing the internal cooling of the computers.
- There should be a *good lock, strong (metal) door and bars on every window* to stop potential thieves. 15 to 20 PC's represent a lot of value so proficient measures need to be taken to protect them at night. Additionally, a night watchman (Askari) is advised.
- There should be enough (ceiling or wall mounted) fans installed to keep the temperature acceptable. Remember, every computer and monitor is like a little oven, generating heat whenever it is switched on. High temperatures are not just uncomfortable for the teacher and students, they also dramatically shorten the computer's lifespan.
- Each desk should have holes or other facilities built in to allow the power cables and network cables to be installed and connected to each-other, either through the roof or on the floor. Each computer needs two power outlets, one for the computer itself and one for the monitor. If a desk holds two computers, make sure there are four power outlets.

Electricity

Very important for any use of computers is the availability of 'clean' electricity. This means electricity with a constant voltage and, very important, without power surges and spikes. Power in Africa is notoriously inconsistent, ranging from 180 to over 250 volt and combined with power spikes this can be responsible for the break-down of computers within days. Worse still, incorrect use of power lines can result in the overheating of cables and equipment, possibly even creating a fire hazard.

- To overcome these problems, we first need to make sure we have a **separate power line** running to the computer classroom. This is very important since only a separate line (1 phase is enough), fused at **16 Amps minimum**, will give us enough power to feed all the equipment. Never use a power line coming from another room since even the switching on of a light in the adjacent room can cause power fluctuations.
- Secondly, if you do not want to rely on the electricity net, the use of a **generator** is advisable. Make sure the capacity of the generator is sufficient for the number of computers to be connected. Remember, without a generator a power cut means 'end of class'!

Next, we need to filter the incoming power by running it through a **stabilizer**. A stabilizer has an input capable of working on a wide variety of voltage levels (around 200 volt to 250 volt) and will provide 'clean', consistent (240 volt) power on the output line.

- The use of locally built stabilizers is advisable since they can run on a wider variation of incoming power and are therefore more suitable for use in Africa. Never connect computers to the external power without first running through a stabilizer because this might damage the computers! Make sure the stabilizer is powerful enough to support a load of a minimum of fifteen computers plus monitors! This means, for a class room with 20 computers, a minimum capacity of **5000 VAh**.
- Last but not least, we will have to make sure the central computer or server has time to shut down properly in case of a power failure. This is accomplished by connecting it to a **UPS**, or Uninterruptible Power Supply. The UPS will be supplied by Viafrica but a space needs to be reserved for it, close to the teacher's desk which will hold the central server.