Malaria by Discipline
(and extracurricular activities)

Biology
- Safety/cleanliness in environment
- Vectors and transmission
- Data collection—the scientific method
- Eukaryotic cells
- Protista classification
- Human body
- Circulation
- Cell division
- Reproduction (life cycle)
- Animal classification
- Evolution
- Ecology
- HIV/AIDS (coinfection)

Chemistry
- RDT – chromatography
- blood smear - microscope
- using the scientific method to diagnosis an illness
- data collection and analysis (net use - survey neighborhood, ask the medical officer – how many pregnant women went to ANC?)
- drugs - kinetics

ICT
- When teaching word make the creating assignments about malaria info and inserting malaria words
- Teaching PowerPoint, have them make a show about malaria
- With excel have them create a table and insert info and functions to calculate facts and stats about malaria
- Teach students how to take info to teach others
- Internet, have assignment to research malaria when learning how to use the internet
- Have students take final product in a portfolio when they leave
- Create a folder on the shared computers with various materials about malaria - like videos, powerpoints and documents

Math
- Vectors - mosquitoes in net
- Probability - chance of getting malaria
- Accounting - savings of using net (cost of net vs cost of malaria)
- Geometry - surface area of nets with different shapes
- Ratios and proportions - compare 3 areas of malaria
- Percentages - find % of people in an area with malaria
- Statistics - mean, mode, median with malaria/frequency distributions of malaria

Physics
- Rate/speed of spread of disease
- Surface tension
- Pressure of bite
- Frequency of mosquitoes/sound
- Blood flow into mosquito
- Flight
- Climate/temperature
- Altitude
- Pressure of killing a mosquito
- LASERs!
- Electrified racket and circuits
- Lenses and magnifying
- Force of mosquito hanging out
- Mosquito net hole - how much blood does a mosquito need to suck before it can't get out again
- Elasticity and creating net
- How much energy/work it takes to tuck net into bed - convert to oz. of ugali
- Elastic limit of the stomach of a mosquito
- Addition of vectors (mosquito's path)
- Doppler effect
- Velocity

English - Malaria conversations, short story/play/poetry (watch Chumo and write a summary)

Extracurricular –
- Inter-school or inter-class hang check competition
- Theatre - Malaria in skits for graduation/welcome form 1
- Data collection in the school or village (baseline and after a series of malaria events)
- School or village environment clean-up
- Project in a box (mural, neem crème, hanging a net, others?)
- WHO malaria comic book