



**PEAK SUCCESS  
EDUCATION**

# PEAK SUCCESS



**PEAK SUCCESS  
EDUCATION**

*empowering education  
enabling careers*

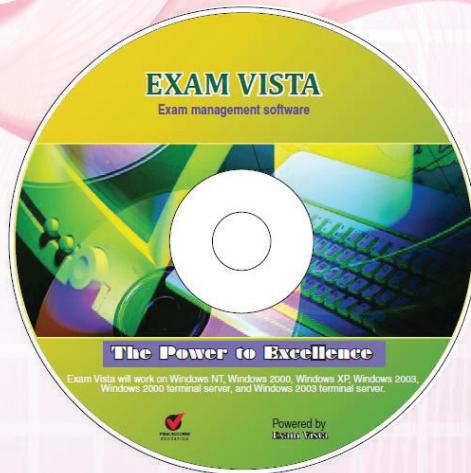
p.o. box 784-00517 nairobi, Kenya

tel: +254 721589308

+254 720796219

+254 722813379

e-mail: [successpeak@yahoo.com](mailto:successpeak@yahoo.com)



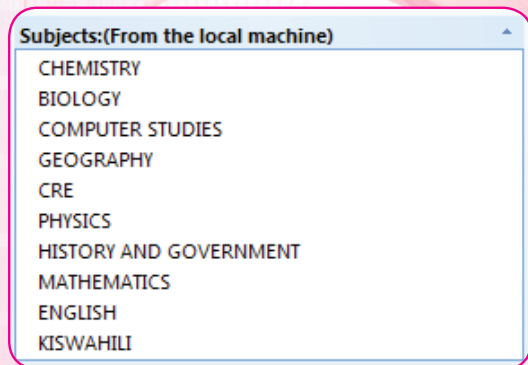
## A. EXAM GENERATOR

Exam Generator allows teachers to create standard exams, quizzes, and homework, complete with mark schemes, in minutes. Questions are organized by topics and subtopics in the question bank, enabling teachers to easily find the questions they need. This software package enables teachers to produce and print off unique Mock or End of Term Examinations according to the random selection criteria outlined in the K.C.S.E Syllabus.

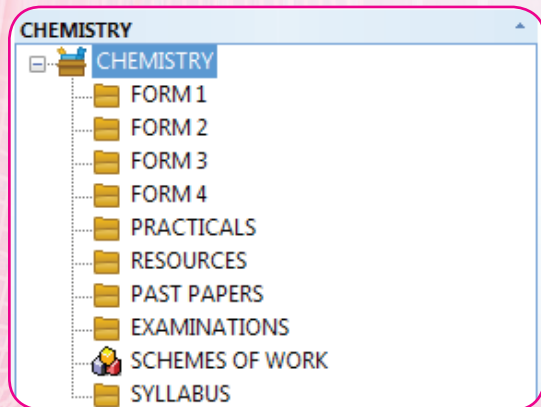
Exam Generator is available in Chemistry, Physics, Mathematics, Biology, English Language, Kiswahili, Geography, History, C.R.E and Computer Studies. In each of these subjects, it provides all assessment resources for forms 1, II, III and IV.

### LOGIN

A.The software application will display the following on the left:

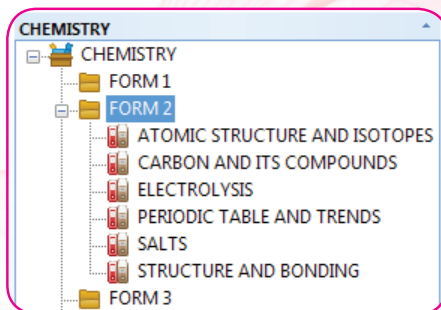


B. CLICK SUBJECT You will notice that the subject will display the following characteristics;

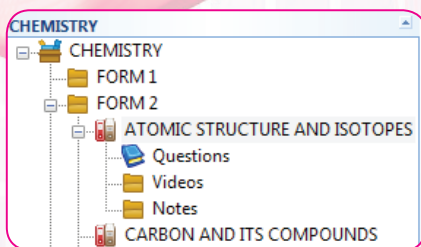




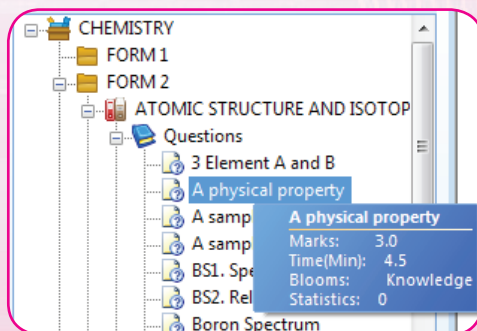
C. If you now click FORM 2, the software application takes you to the topics that fall into FORM 2 category as displayed below;



D. If you now click a topic, it will display all the QUESTIONS, VIDEO LESSONS AND POWERPOINTS (NOTES) under this topic as shown below;



E. Now, the EXAM GENERATOR takes over the application to help you set the Exam, Test Homework for your FORM. Click any question and the full window on the right opens. The blue icon shows the characteristics of each question. This means you can view and evaluate each question to select the criteria you wish to use to base your test on. This simply means you can create a test based on TOPIC or TIME, BLOOM'S TAXONOMY or CATEGORY (Short, long structured or Multiple choice) as you desire. It also shows you THE STATISTICS, or how many times the question has been used in your previous tests. On the bottom right, you can click ANSWER to view the mark distribution.



## F. Mark scheme

(a) mass / density / for gases: rate of effusion or diffusion / melting point / boiling point 1  
(Do not accept mass number)

(b) if  $^{35}\text{Cl} = x$ , then  $(x = 35.00) + (1 - x) 37.00 = 35.45$  2  
Award [1] for set up.  
therefore,  $x = 0.775$ ;  
 $^{35}\text{Cl} = 77.5\%$  and  $^{37}\text{Cl} = 22.5\%$ ;  
(need both for mark);

## CREATING THE REAL EXAM

- a. On the left window of the subject, click EXAMINATION, then right click and select ADD. The window below appears. You can type the EXAM NAME, select that you will save it in your FOLDER. It also provides an option for E-MAIL in case you wish to send it to your students ONLINE. Then OK.

New Exam

Examiner Id

Exam Name

Generation Method

Display Method

Exam Type

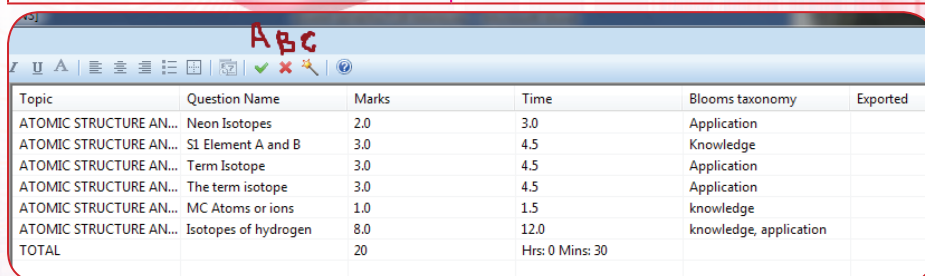
OK Cancel

## SELECTING QUESTION FOR YOUR EXAM

The window above is replaced by the one below. If you click a question of the left, you can view it to see if it fits your preference. You can also view the MARKSCHEME for this question by clicking answer at the bottom. If you decide to select it as your number one, you click the GREEN icon A shown in RED. You keep repeating this process as you add more and more questions to your EXAMINATION. If you wish to remove a question, you click RED icon B. The spreadsheet displays the results showing

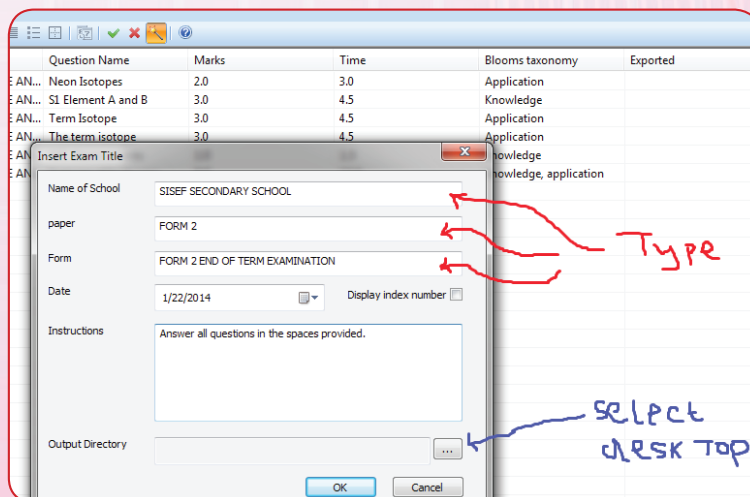
- |                    |                 |
|--------------------|-----------------|
| • Topic            | • Question name |
| • Marks            | • Time          |
| • Bloom's Taxonomy |                 |

<b>Remembering:</b> can the student recall or remember the information?	Define, duplicate, list, memorize, recall, repeat, reproduce state
<b>Understanding:</b> can the student explain ideas or concepts?	Classify, describe, discuss, explain, identify, locate, recognize, report, select, translate, paraphrase
<b>Applying:</b> can the student use the information in a new way?	Choose, demonstrate, dramatize, employ, illustrate, interpret, operate, schedule, sketch, solve, use, write.
<b>Analyzing:</b> can the student distinguish between the different parts?	Appraise, compare, contrast, criticize, differentiate, discriminate, distinguish, examine, experiment, question, test.
<b>Evaluating:</b> can the student justify a stand or decision?	Appraise, argue, defend, judge, select, support, value, evaluate
<b>Creating:</b> can the student create new product or point of view?	Assemble, construct, create, design, develop, formulate, write.



Topic	Question Name	Marks	Time	Blooms taxonomy	Exported
ATOMIC STRUCTURE AN...	Neon Isotopes	2.0	3.0	Application	
ATOMIC STRUCTURE AN...	SI Element A and B	3.0	4.5	Knowledge	
ATOMIC STRUCTURE AN...	Term Isotope	3.0	4.5	Application	
ATOMIC STRUCTURE AN...	The term isotope	3.0	4.5	Application	
ATOMIC STRUCTURE AN...	MC Atoms or ions	1.0	1.5	knowledge	
ATOMIC STRUCTURE AN...	Isotopes of hydrogen	8.0	12.0	knowledge, application	
TOTAL		20	Hrs: 0 Mins: 30		

Once you are satisfied with all the criteria of your exam, you can export it by pressing icon below C. Type you exam particulars in select saving location as shown, then OK. The complete EXAMINATION and MARKING SCHEME go to DESKTOPE of your computer. Close the software, go to desktop and print your EXAMINATION.



Insert Exam Title

Name of School: SISEF SECONDARY SCHOOL

paper: FORM 2

Form: FORM 2 END OF TERM EXAMINATION

Date: 1/22/2014

Instructions: Answer all questions in the spaces provided.

Output Directory: ...

OK Cancel

Type

select DESK TOP

## QUESTION PAPER

NAME: .....

SCHOOL NAME: SISEF SECONDARY SCHOOL

DATE: 1/22/2014

### FORM 2 FORM 2 END OF TERM EXAMINATION

CHEMISTRY  
THEORY  
TIME: 30

#### INSTRUCTIONS TO CANDIDATES

1. Write your name and Index Number in the spaces provided above.
2. Sign and write date of examination in the spaces provided above.

## MARK SCHEMES

1.

$$20(.9048) + 21(0.0027) + 22(0.0925) [1m]$$
$$= 20.18 \text{ amu} [1m]$$

[Total 2m]

2.

- (a) A: 2, 8, 2 (1mk)  
B: 2, 8, 7 (1mk)
- (b)  $AB_2$  (1mk)

3.

- (a) atoms of the same element / same atomic number / same number of protons;  
different numbers of neutrons / mass numbers; 2
- Award only [1] max if reference made to elements but not atoms.

- (b) relative atomic mass =  $\frac{(69 \times 61.2 + 71 \times 38.8)}{100} = 69.8$ ; 1
- 1 (SF) possible (treat 69 and 71 as integers)

[3]



# INTERACTIVE LEARNING PROGRAM

## HANDLING DATA

Combined probability  
Cumulative frequency

Drawing a graph  
Analysing a graph  
Box plots  
Tick or trash  
Exam help  
Topic test

Questionnaires  
Scatter graphs

**In this video**  
Jamie collects data at the UK Snakeboard Championships and draws a cumulative frequency graph. Watch the VIDEO, recap using INFO, and then try the ACTIVITIES.

## maths 4 real

Score	Freq
1 to 15	
16 to 30	
31 to 45	1
46 to 60	2
61 to 75	

01:27 elapsed 02:44 duration

volume

QUIT

VIDEO

INFO

ACTIVITIES

CALCULATOR

WWW

LINKS

WORDBANK

### Action of Heat on Nitrates

Close

Nitrates

Sample A

Sample B

Sample C

Take Sample A,B and C in clean dry test tubes separately, and heat for some time. Observe the changes

Click on sample A,B or sample C to observe the changes

edurite

PAUSE REPLAY BACK NEXT



## RESEARCH FOUNDATION

Educational Research has established that approximately 83% of human learning occurs visually, and the remaining 17% through the other senses:

- 11% through Hearing,
- 3.5% through sense of Smell,
- 1.5% through Touch
- 1% through sense of Taste.

As the role of ICT in primary and secondary schools continues to grow, we are pleased to be able to provide our partners with an amazing range of the best educational e-Learning content backed up by first class customer support services.

## INTERACTIVE VIDEO LESSONS



This Multimedia Bank is a unique learning service, blending thousands of educational video clips and other learning resources designed specifically to support teachers and students. Using Multimedia Bank, teachers can add meaning to lessons, promote better understanding of concepts, and encourage involvement in discussion.

## 1. VIRTUAL CLASSROOM

The Virtual Classroom software is designed to complement secondary school science curriculum. Teachers will find ready-to-use demonstrations, experiments, illustrations, games, puzzles, analogies, lessons, activities, and strategies.



All topics are accompanied by extensive background material, providing teachers with the scientific, organizational, and pedagogical principles necessary for successful classroom implementation. Each software contains nearly 400 lessons which cover the entire K.C.S.E syllabus requirements from form I to IV, in Mathematics, Physics, Chemistry and Biology.

## 2. BRAIN POWER LEARNING SUITE

Brain Power is set to replace textbooks that students have to purchase at the start of each school year. It is an effective pedagogical tool in the classroom. It can be used in the classroom for teaching, for student projects, for practice and drilling, for games, for reviews, and for tests.

Teachers can use Brain Power to enhance the effectiveness of classroom instruction in many ways and in every subject area. Teachers will save time on handing out instructional material, writing on blackboard, repeated speech and so on. Main points can be emphasized by using its graphics, animation and sound. In each of these subjects, brain power provides all resources for forms 1, II, III and IV.



# The Grandmaster

E-TEACHING AND ASSESSING SOFTWARE FOR TEACHERS



## e-sir

POWERED BY  
EXAM VISTA

STUDENT SELF-LEARNING SOFTWARE

