



**HKDSE Biology and
Combined Science (Biology)
Public Assessment:
School-based Assessment**

22 & 29 Nov 2008

HKDSE Bio School-Based Assessment

Principles of SBA design:

- **integrate assessment with teaching and learning**
- **align with curriculum aims by addressing curriculum emphases and learning targets**
- **feedback for better learning and teaching**



HKDSE Bio School-Based Assessment

- **20%** of subject mark
- Implemented in 2 phases:

- **2012 & 2013 Exams**

Practical related tasks only

- **2014 Exam & onwards**

**Both practical related tasks
& non-practical related tasks**



School-Based Assessment (Bio)

	Minimum number of assessments					Min. no. of practical related tasks for learning and teaching
	Practical-related tasks (14%)		Non-practical related tasks (6%)			
	Area A (Practical skills) (6%)	Area B (Report) (8%)	Assignment			
S6	1	2	1	2	1	8
S5	1		1		1	
S4						

School-Based Assessment (Combined Sci – Bio)

	Minimum number of assessments			Min. no. of practical related tasks for learning and teaching
	Practical-related tasks (7%)		Non-practical related tasks (3%)	
	Area A (Practical skills) (3%)	Area B (Report) (4%)	Assignment	
S6	1	1	1	4
S5				
S4				

For 2012 & 2013 Exams - BIO

Minimum number of assessments					Min. no. of practical related tasks for learning and teaching
Practical-related tasks (20%)			Non-practical related tasks		
Area A (Practical skills) (8%)	Area B (Report) (12%)				
S6	1	2	1	2	8
S5	1		1		
S4					

2012 & 2013 Exams - Combined Sci – Bio

	Minimum number of assessments		Min. no. of practical related tasks for learning and teaching
	Practical-related tasks (10%)	Non-practical related tasks	
	Area A (Practical skills) (4%)	Area B (Report) (6%)	
S6	1	1	4
S5			
S4			

Practical related tasks

Types of practical work that can be included in the SBA:

(a) investigative practical work **G1**

(b) microscopic examination

(c) dissection of animal / animal organs

(d) ecology fieldwork **G1**

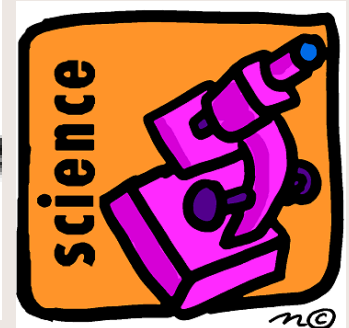
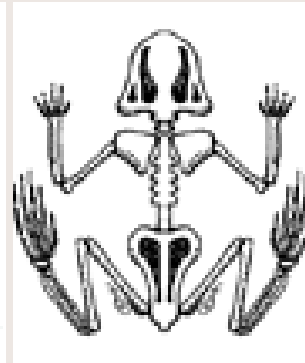
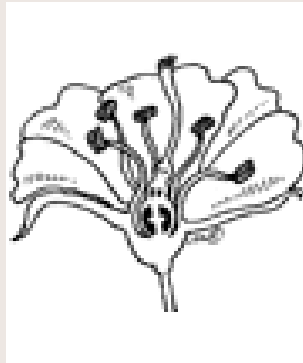
(e) biological drawing

- (b)-(e) are optional; no more than 1 assessment should come from each.

- **G1**: Group work allowed. Teachers assess the **practical skills** of individual students within each group.

Practical related tasks for learning and teaching

Teachers will be asked to **submit a list of tasks** done in S5 to S6, showing the coverage of the different types of work.



Practical related tasks

Assessment Area	Abilities assessed
Practical skills (Ability area A)	<ul style="list-style-type: none">• Ability to organize and perform practical work• Ability to make accurate observations and measurements
Investigation report (Ability area B)	<ul style="list-style-type: none">• Identification of problem and formulation of hypothesis, if applicable• Design and method of investigation• Presentation of results• Interpretation and discussion of results and conclusion

Non-practical related tasks

Each assignment should cover:

Curriculum emphasis (at least one)	Generic skills (at least one)
<ul style="list-style-type: none">▪ Scientific inquiry▪ Science- Technology- Society- Environment Connections▪ Nature and history of Biology	<ul style="list-style-type: none">▪ Creativity▪ Critical thinking skills▪ Communication skills▪ Problem-solving skills

Non-practical related tasks

Examples of assignments that can be included:

- Read about the works of some biologists and write a report / review in connection with the understanding of the nature of science
- Design a poster / pamphlet / web page advising on ways in which people can reduce the chance of developing cancer
- Report on a visit to a sewage treatment plant / an ecological study

Non-practical related tasks

Abilities assessed in assignments **G2**:

- to understand the issues / problems under study
- to apply and integrate their biological knowledge
- to analyse or critically evaluate issues being investigated
- to generate solutions to the problems, or to develop methods for accomplishing certain tasks
- **G2**: *Where necessary, group work followed by presentation / oral-questioning by teacher is accepted.*

Non-practical related tasks

Abilities assessed in assignments **G2**:

- to produce work that is both novel and appropriate
- to present their work with coherence and organization in written or oral format, using the language of science, for communicating their ideas clearly and logically
- **G2**: *Where necessary, group work followed by presentation / oral-questioning by teacher is accepted.*

cont'd

School repeaters / transfer candidates

minimum requirements for SBA in **S6** :

Year of examination	Minimum number of assessments required for BIOLOGY
2012 & 2013	2 Area A (Practical skills) + 2 Area B (Reports)
2014 and thereafter	2 Area A + 2 Area B + 1 assignment

Year of examination	Minimum number of assessments required for COMBINED SCIENCE (BIOLOGY part)
2012 & 2013	1 Area A (Practical skills) + 1 Area B (Reports)
2014 and thereafter	1 Area A + 1 Area B + 1 assignment



Switching of courses



Students who follow a science course with a Biology component (including **Biology**, **Combined Science (Biology part)** and **Integrated Science**) at **S5 are allowed to switch** to another one with a **Biology** component in their **S6** year of study, provided that the school concerned is permitted to present candidates for the examination of the subject to be entered by the candidates. *Such switching of courses is also allowed for school repeaters.*

They are required to fulfill the **same** SBA requirements **as** those for school **repeaters** and **transfer** candidates (i.e. **S6** requirement)

Private Candidates

Private candidates will **NOT** need to complete the SBA component. Their subject mark will be based entirely on their public examination results and adjusted accordingly.

Private candidates who have SBA marks obtained in previous examinations are **NOT** allowed to carry these marks to the current examination.

Proposed SBA Mark Submission Coordination across subjects in 2012 HKDSE and HKALE

(Draft as of Oct 08)

1. 2011 (S5 for HKDSE and S6 for HKALE)

HKDSE						HKALE	
Mid May	Early June	Mid June	Late June	Early July	Mid July	Late June	Early July
LS – Stage 1	DAT ICT	Biology Chemistry Physics Combined Science	Chi Lang Integrated Science	History Visual Arts	Chi History Eng Lang	Chemistry	Chinese Lang & Culture Chi Lit

2. 2012 (S6 for HKDSE and S7 for HKALE)

HKDSE								HKALE		
	Mid Oct	Mid Jan	Early Feb	Mid Feb	Late Feb	Early Mar	Late Mar	Early Mar	Mid Mar	Late Mar
	LS – Stage 2	LS – Stage 3	History DAT Visual Arts	Physics Chemistry Biology Combined Science	ICT Chi History Integrated Science	Chi Lang	Eng Lang	LS Electronics Computer Applications Computer Studies	Physics Chemistry Biology GPA	Visual Arts Chi Lang & Culture Chi Lit

How can schools plan for SBA Implementation?

- **Conduct SBA as an integral part of teaching and learning and not treat it as an “add-on”**
- **Set up school’s own assessment plan, specify the no of assessment activities to be conducted for individual subjects**
- **Coordinate the conduct of the SBA across subjects so that students’ work will not be concentrated into one or two critical months**
- **Incorporate SBA as a part of schools’ internal assessment program and replace some of the current assessment activities, e.g. assignments, tests etc**

Documents & Professional Development

1. SBA handbook	Jun 09
2. SBA sample tasks and assessment criteria	May - Aug 09
3. Seminar / workshop on SBA practical related tasks	May - Aug 09

