Learn Xtra Schedule

Weekend
Saturday
Life Sciences 12:00 – 13:30
Weekday Live (Repeat)
Life Sciences 17:00 – 18:00
Sunday
Grade 11 & 10
Life Sciences 12:00 – 13:30
Weekday Live (Repeat)
Life Sciences 17:00 – 18:00

Learn Xtra HelpDesk

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Learn Xtra Help Desk

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Learn Xtra Teacher Talk

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Life Sciences: Learners will develop
- their knowledge of key biological concepts, processes, systems, and theories;
- an ability to critically evaluate and debate scientific issues and processes;
- greater awareness of the ways in which biotechnology and knowledge of Life Sciences have benefited humankind;
Life Sciences: Learners will develop

- an understanding of the ways in which humans have impacted negatively on the environment and organisms living in it;
- a deep appreciation of the unique diversity of past and present biomes in Southern Africa and the importance of conservation;

Life Sciences: Learners will

- a level of academic and scientific literacy that enables them to read, talk about, write and think about and think about biological processes, concepts and investigations.

Specific Aims
Life Sciences have the following three broad subject specific aims:
- Specific Aim 1 (which relates to the knowledge/content)
- Specific Aim 2 (which relates to doing science/investigations)
- Specific Aim 3 (which relates to understanding the applications of Life Science in everyday life)

Principles not included: Implications

Methodology / Assessment

SA 1: KNOWING LIFE SCIENCES

Elements of the body of knowledge: concepts, processes, phenomena, mechanisms, principles, theories, laws, models, etc
Cognitive skills Aim 1

1.1 Recall
1.2 Understand and make connections between ideas and concepts (comprehension)
1.3 Application
1.4 Analyse, evaluate, synthesise

Acquire basic knowledge
- Making meaning and understanding
- Scientific knowledge, concepts, theories & ideas

Access, select, recall, describe
- Concept framework
- Organise/reorganise
- Write summaries
- Develop/flow charts
- Recognise patterns/trends

State, name, label, list, describe, define
- Explain, compare, re-write, calculate, interpret, differentiate, predict, select, generalisation
- Demonstrate, interpret, predict, compare, differentiate, illustrate, solve, select
- Appraise, argue, judge, select, evaluate, defend a point of view, compare, contrast, utilise, differentiate, state, name, label, list, describe, define, distinguish, discuss

SA 2: Investigating Phenomena in Life Sciences

7 broad skills
1. Following instructions
2. Handling equipment/or/apparatus
3. Making observations
4. Recording information/or data
5. Measure
6. Interpret
7. Design/plan investigations or experiment

Aim 2 (Investigative skills)

Skills for Designing/Planning investigations (skill 7):
- Identifying a problem
- Hypothesising
- Selection of apparatus/equipment/material
- Identifying variables
- Suggesting ways to control variables
- Planning experiment/investigation
- Suggesting ways of recording results
- Understanding the need for replication/verification

Aim 3

- Specific Aim 3 (which relates to understanding the applications of Life Science in everyday life)

Appreciating and understanding the History, Importance and Applications of Life Sciences in Society