**SCIENCE SCHEMES OF WORK FOR STANDARD SEVEN**

**TERM I**

**REFERENCES:**

1. SCIENCE IN ACTION PUPILS BOOK7, OXFORD PUBLISHERS
2. SCIENCE IN ACTION TEACHER’S GUIDE BOOK 7 OXFORD PUBLISHERS
3. PRIMARY SCIENCE PUPILS BOOK7, JKF PUBLISHERS
4. PRIMARY SCIENCE TEACHERS GUIDE BOOK 7, JKF PUBLISHERS
5. UNDERSTANDING SCIENCE PUPILS BOOK7 PUBLISHERS

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| **WEEK** | **LESSON** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | | **TEACHER’S ACTIVITIES** | **LEARNER’S ACTIVITIES** | **RESOURCES** | | **REFERENCES** | **ASSESSMENT** | **REMARKS** |
| **1** | **REPORTING AND PREPARATION** | | | | | | | | | | |  |
| **2** | **1** | **The**  **circulatory system** | **Parts of circulatory system** | **By the end of this topic the learner should be able to identify the parts of the circulatory system.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** | * **Discussion** * **Explanation** * **Demonstrating diagrams** | * **Chart** * **Photographs**   **Diagrams from the book** | | **-SCIA - 7 pg 2**  **-TG - 7 pg 2**  **-PSC-7 PB pg2**  **-TG-7 pg2** | **Oral exercise** |  |
| **2** |  | **The heart** | **By the end of this topic the learner should be able to identify and name the parts of the heart.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Observation** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Observation** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA - 7 pg 2--4**  **TG - 7 pg 2**  **-PSC-7 PB pg3**  **-TG-7 pg2** | **Drawing and labelling** |  |
| **3** |  | **Blood** | **By the end of this topic the learner should be able to identify the component of the blood** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA - 7 pg 5**  **TG - 7 pg 7**  **-PSC-7 PB pg5**  **-TG-7 pg** | **Written questions** |  |
| **4** |  | **Blood vessels** | **By the end of this topic the learner should be able to identify and describe a blood vessels and its function.** | | * **Drawing** * **Explanation** * **Demonstrating diagrams** | * **Drawing** * **Explanation** * **Demonstrating diagrams** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 6**  **TG - 7 pg 3**  **-PSC-7 PB pg6**  **-TG-7 pg4** | **Filling in bank spaces** |  |
| **5** |  | **Functions of the heart** | **By the end of this topic the learner should be able to identify function. Of the heart** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 7**  **TG - 7 pg 4**  **-PSC-7 PB pg6**  **-TG-7 pg4** | **Written exercise** |  |
| **3** | **1** |  | **Composition of blood** | **By the end of this topic the learner should be able to describe white blood cells as a blood components and its function.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg8**  **SCIA – 7 pg 7**  **TG - 7 pg 4** |  |  |
| **2** |  | **The plasma** | **By the end of this topic the learner should be able to describe plasma as blood components and its functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** | * **Discussion** * **Explanation** * **Demonstrating diagrams** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 8**  **TG - 7 pg 8**  **-PSC-7 PB pg4**  **-TG-7 pg5** | **Oral exercise** |  |
| **3** |  | **Red blood cells** | **By the end of this topic the learner should be able to identify and describe red blood cell as blood components and its functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Drawing** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Drawing** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 4-8**  **TG - 7 pg 5**  **-PSC-7 PB pg8**  **-TG-7 pg5** | **Drawing and labelling** |  |
| **4** |  | **White blood cells** | **By the end of this topic the learner should be able to identify and describe white blood cells as blood components and its functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 8**  **TG - 7 pg 5**  **-PSC-7 PB pg9**  **-TG-7 pg6** | **Written questions** |  |
| **5** |  | **The platelets** | **By the end of this topic the learner should be able to identify and describe platelets as blood components and its functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** | * **Discussion** * **Explanation** * **Demonstrating diagrams** | **Photographs and charts on**  **The parts of circulatory system** | | **SCIA – 7 pg 8**  **TG - 7 pg 5**  **-PSC-7 PB pg9**  **-TG-7 pg6** | **Filling in bank spaces** |  |
| **4** | **1** |  | **Blood vessels** | **By the end of this topic the learner should be able to describe the structure and functions of blood vessels** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | **Photographs and charts on**  **The parts of circulatory system** | | **SCIA – 7 pg 8**  **TG - 7 pg 7**  **-PSC-7 PB pg9**  **-TG-7 pg6** | **Written exercise** |  |
| **2** |  | **Arteries** | **By the end of this topic the learner should be able to identify arteries as parts of blood vessels and their functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams** * **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 8**  **TG - 7 pg 6**  **-PSC-7 PB pg9**  **-TG-7 pg7** | **Oral exercise** |  |
| **3** |  | **Veins** | **By the end of this topic the learner should be able to identify veins as parts of blood vessels and their functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 7-9**  **TG - 7 pg 6**  **-PSC-7 PB pg9**  **-TG-7 pg6** | **Drawing and labelling** |  |
| **4** |  | **Capillaries** | **By the end of this topic the learner should be able to do a identify capillaries as parts of blood vessels and their functions.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 8-10**  **TG - 7 pg 6**  **-PSC-7 PB pg11**  **-TG-7 pg7** | **Written questions** |  |
| **5** |  | **Structure function of heart** | **By the end of this topic the learner should be able to describe the structure and function of the heart** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Photographs and charts on**  **The parts of blood circulatory system** | | **SCIA – 7 pg 7-10**  **TG - 7 pg 7**  **-PSC-7 PB pg8-12**  **-TG-7 pg6** | **Filling in bank spaces** |  |
| **5** | **1** | **Drugs** | **Drugs** | **By the end of this topic the learner should be able to explain the meaning of drugs** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Tobacco**  **Medicine**  **Tea**  **Coffee** | | **SCIA – 7 pg 8**  **TG - 7 pg 7**  **-PSC-7 PB pg**  **-TG-7 pg** | **Written exercise** |  |
| **2** |  | **Drug misuse** | **By the end of this topic the learner should be able to explain the meaning of drug misuse.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Tobacco**    **Medicine**  **Tea**  **Coffee**  **Beer bottle** | | **SCIA – 7 pg 8-10**  **TG - 7 pg 2**  **-PSC-7 PB pg11**  **-TG-7 pg** | **Oral exercise** |  |
| **3** |  | **Meaning of drug abuse.** | **By the end of this topic the learner should be able to explain the meaning of drug abuse.** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Tobacco**  **Medicine**  **Tea**  **Coffee** | | **SCIA – 7 pg 11-12**  **TG - 7 pg 7**  **-PSC-7 PB pg13**  **-TG-7 pg8** | **Drawing and labelling** |  |
| **4** |  | **Commonly abused drugs** | **By the end of this topic the learner should be able to identify and describe the commonly abused drugs. Mild** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Tobacco**  **Medicine**  **Tea**  **Coffee** | | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | **Written questions** |  |
| **5** |  | **‘’** | **By the end of this topic the learner should be able to identify and describe the commonly abused drugs. (narcotic)** | | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Tobacco**  **Medicine**  **Tea**  **Coffee** | | **SCIA – 7 pg 15-22**  **TG - 7 pg 8**  **-PSC-7 PB pg 17**  **-TG-7 pg9** | **Filling in bank spaces** |  |
| **6** | **1** |  | **Effect of drug abuse**  **health** | | **By the end of this topic the learner should be able to describe health effects of drug abuse.** | * **Discussion** | * **Discussion** | **Tobacco**    **Medicine**  **Tea** | | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | **Drawing and labelling** |  |
| **2** |  | **Social effect** | | **By the end of this topic the learner should be able to describe social effect of drug abuse** | * **Explanation** | * **Explanation** | **Tobacco**  **Cigarette**  **Coffee**  **Beer bottle**  **p*osters*** | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | | **Written questions** |  |
| **3** |  | **Myth of HIV AND AIDS** | | **By the end of this topic the learner should be able to describe and dispel myths about HIV and AIDS** | * **Demonstrating diagrams** | * **Demonstrating diagrams** | **Poster**  **Pictures**  **Charts** | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | | **Filling in bank spaces** |  |
| **4** |  | **Misconception s**  **About HIV/AIDS** | | **By the end of this topic the learner should be able to do a explain and dispel misconception about HIV and AIDS** | **Note taking** | **Note taking** | **Poster**  **Pictures**  **Charts** | **SCIA – 7 pg 15-22**  **TG - 7 pg 8**  **-PSC-7 PB pg 17**  **-TG-7 pg9** | | **Written exercise** |  |
| **5** |  | **Care and support of people infect by HIV** | | **By the end of this topic the learner should be able to care and support people living with HIV and AIDS** | * **Discussion** | * **Discussion** | **Poster**  **Pictures**  **Charts** | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | | **Oral exercise** |  |
| **7 MID TERM ONE BREAK** | | | | | | | | | | | | |
| **8** | **1** | **Environment** | **Environment** | | **By the end of this topic the learner should be able to state and explain the meaning of environment** | * **Explanation** | * **Explanation** | **Poster**  **Pictures**  **Charts** | **SCIA – 7 pg 15-22**  **TG - 7 pg 8**  **-PSC-7 PB pg 17**  **-TG-7 pg9** | | **Drawing and labelling** |  |
| **2** |  | **Component of environment** | | **By the end of this topic the learner should be able to name and explain major component of environment** | * **Demonstrating diagrams** | * **Demonstrating diagrams** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | | **Written questions** |  |
| **3** | **Plants** | **Interdependence** | | **By the end of this topic the learner should be able to explain the meaning of interdependence.** | **Note taking** | **Note taking** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 15-22**  **TG - 7 pg 8**  **-PSC-7 PB pg 17**  **-TG-7 pg9** | | **Filling in bank spaces** |  |
| **4** |  | **In plants** | | **By the end of this topic the learner should be able to identify and describe the interdependence between plants** | * **Discussion** | * **Discussion** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 13-20**  **TG - 7 pg 3**  **-PSC-7 PB pg15**  **-TG-7 pg7** | | **Written exercise** |  |
| **5** |  | **Between plants and animals** | | **By the end of this topic the learner should be able to identify and describe the interdependence between plants and animals.** | * **Explanation** | * **Explanation** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 15-22**  **TG - 7 pg 8**  **-PSC-7 PB pg 17**  **-TG-7 pg9** | | **Oral exercise** |  |

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| **9** | **1** |  | **Food chain** | **By the end of this topic the learner should be able to describe and explain what a food chain is.** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 38**  **TG - 7 pg 17**  **-PSC-7 PB pg40**  **-TG-7 pg18** | **Drawing and labelling** |  |
| **2** |  | **Crop pest** | **By the end of this topic the learner should be able to explain the meaning of crop pest** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 38**  **TG - 7 pg 17**  **-PSC-7 PB pg41**  **-TG-7 pg18** | **Written questions** |  |
| **3** |  |  | **By the end of this topic the learner should be able to describe the types of crop pest.** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Soil**  **Plants**  **water**  **Charts** | **SCIA – 7 pg 40**  **TG - 7 pg 19**  **-PSC-7 PB pg43**  **-TG-7 pg19** | **Filling in bank spaces** |  |
| **4** |  |  | **By the end of this topic the learner should be able identify field pest and explain their effects on crops** | * **Discussion** * **Explanation** * **Demonstrating chart** | **Pest**  **Weevils**  **Plants**  **Crop** | **SCIA – 7 pg 43**  **TG - 7 pg 19**  **-PSC-7 PB pg44**  **-TG-7 pg20** | **Written exercise** |  |
| **5** |  |  | **By the end of this topic the learner should be able to identify storage pest and explain their effect on crop** | * **Explanation Discussion** * **Explanation** * **Demonstrating chart** | **Pest**  **Weevils**  **Plants**  **Crop** | **SCIA – 7 pg 46**  **TG - 7 pg 21**  **-PSC-7 PB pg46**  **-TG-7 pg22** | **Oral exercise** |  |
| **10** | **1** |  | **Effects of pests on crops** | **By the end of this topic the learner should be able to explain the effects of pests on crops** | * **Demonstrating diagrams** | **Pest**  **Weevils**  **Plants**  **Crop** | **SCIA – 7 pg 47**  **TG - 7 pg 23**  **-PSC-7 PB pg48**  **-TG-7 pg24** | **Drawing and labelling** |  |
| **2** |  | **Control measures** | **By the end of this topic the learner should be able to explain and identify some crop pest control measures** | * **Note taking Discussion** * **Explanation**   **Demonstrating chart** | **Pest**  **Weevils**  **Plants**  **Crop** | **SCIA – 7 pg 52**  **TG - 7 pg 25**  **-PSC-7 PB pg56**  **-TG-7 pg26** | **Written questions** |  |
| **3** | **Animals** | **Meaning of parasite** | **By the end of this topic the learner should be able to explain the meaning the of parasites** | * **Discussion** * **Explanation** * **Demonstrating chart** | **Parasite**  **Tick**  **Plants**  **Crop** | **SCIA – 7 pg 53**  **TG - 7 pg 26**  **-PSC-7 PB pg54**  **-TG-7 pg27** | **Filling in bank spaces** |  |
| **4** |  | **External parasite** | **By the end of this topic the learner should be able to identify and describe the external parasite** | * **Explanation Discussion** * **Explanation** * **Demonstrating chart** | **Parasite**  **Tick** | **SCIA – 7 pg 54**  **TG - 7 pg 28**  **-PSC-7 PB pg60**  **-TG-7 pg29** | **Written exercise** |  |
| **5** |  | **Internal parasite** | **By the end of this topic the learner should be able to identify and describe the internal parasites.** | * **Demonstrating diagrams** | **Parasite**  **Tick** | **SCIA – 7 pg 54**  **TG - 7 pg 25**  **-PSC-7 PB pg56**  **-TG-7 pg26** | **Oral exercise** |  |

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| **11** | **1** |  | **Effects of parasite** | **By the end of this topic the learner should be able to describe and state the effect of external parasites on livestock.** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Parasite**  **Tick** | **SCIA – 7 pg 54**  **TG - 7 pg 26**  **-PSC-7 PB pg56**  **-TG-7 pg53** | **Oral exercise** |  |
| **2** |  |  | **. By the end of this topic the learner should be able to describe and state the effect of internal parasites on livestock.** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Parasite**  **Tick** | **SCIA – 7 pg 55**  **TG - 7 pg 26**  **-PSC-7 PB pg57**  **-TG-7 pg28** | **Drawing and labelling** |  |
| **3** |  | **Control of parasite** | **By the end of this topic the learner should be able to describe and explain control the internal parasite** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Parasite** | **SCIA – 7 pg60**  **TG - 7 pg 26**  **-PSC-7 PB pg68**  **-TG-7 pg30** | **Written questions** |  |
| **4** |  |  | **By the end of this topic the learner should be able to describe and explain control the external parasite** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Parasite**  **Tick**  **hide** | **SCIA – 7 pg 60**  **TG - 7 pg 27**  **-PSC-7 PB pg69**  **-TG-7 pg28** | **Filling in bank spaces** |  |
| **5** |  | **Human intestinal worms** | **By the end of this topic the learner should be able to describe and explain control the human intestinal worms** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Parasite**  **Tick**  **hide** | **SCIA – 7 pg 66**  **TG - 7 pg 30**  **-PSC-7 PB pg69**  **-TG-7 pg34** | **Written exercise** |  |
| **12** | **1** |  |  | **By the end of this topic the learner should be able to describe and explain control the human intestinal worms** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Charts**  **pictures** | **SCIA – 7 pg 69**  **TG - 7 pg 32**  **-PSC-7 PB pg70**  **-TG-7 pg335** |  |  |
| **2-5** |  | **Revision** | **By the end of this topic the learner should be able to revise and answer questions on the topics he/she covered in the term** | * **Discussion** * **Explanation** * **Demonstrating diagrams**   **Note taking** | **Charts**  **pictures** | **SCIA – 7 pg 69**  **TG - 7 pg**  **-PSC-7 PB pg71**  **-TG-7 pg** |  |  |
| **13 REVISION** | | | | | | | | | |
| **14 END OF TERM EXAMINATION** | | | | | | | | | |