**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** |