# Curriculum Area Plan: Digital Technologies - Years 5 and 6 (Sample Program 1)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | |
| **Year 5** | **Semester 1** |  |  |  |  |  | **Components of digital systems – 5.1.1** | | |  |  |  | **Examination of whole numbers – 5.1.2** | | | |  |  |  | |
|  |  |  |  |  | Digital Systems Communicate   1. Data: Here to there | | |  |  |  | Digital Systems Communicate   1. Data representation | | | |  |  |  | |
| **Semester 2** |  |  |  |  |  | **Interpret and visualise data – 5.2.1** | | | **Online collaborative projects – 5.2.2** | |  |  |  |  |  |  |  |  | |
|  |  |  |  |  | Our World  Habitat analysis | | | | |  |  |  |  |  |  |  |  | |
| **Year 6** | **Semester 1** |  |  |  | **Define problems – 6.1.1** | | **Design user interface – 6.1.2** | | **Design algorithms – 6.1.3** | | | **Develop simple visual programs – 6.1.4** | | | | | | **How solutions meet needs**  **– 6.1.5** | |
|  |  |  | Draw-a-Shape   1. Define a problem | | Draw-a-Shape   1. Create interface and algorithms | | | | | Draw-a-Shape   1. Create code based on algorithms | | | | | | Draw-a-Shape   1. Reflection | | |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | |

\* Based on 1 hour of teaching time per week

**Topic, level, semester, sequence**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Digital Systems** |  | **Data and Information** |  | **Creating Digital Solutions** |  |

# Curriculum Area Plan: Digital Technologies - Years 5 and 6 (Sample Program 2)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| **Year 5** | **Semester 1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Year 6** | **Semester 1** |  |  | **Components of digital systems – 6.1.1** | | |  |  | **Examination of whole numbers – 6.1.2** | | |  |  | **Interpret and visualise data**  **– 6.1.3** | | **Online collaborative projects – 6.1.4** | | |  |
|  |  | Computers and networks | | |  |  | Binary numbers | | |  |  | All about us | | | | |  |
| **Semester 2** | **Define problems – 6.2.1** | | **Design user interface – 6.2.2** | | **Design algorithms – 6.2.3** | | **Develop simple visual programs – 6.2.4** | | | | | **How solutions meet needs**  **– 6.2.5** | |  |  |  |  |  |
| Programming project   * Analysis and design | | | | | | Programming project   * Development | | | | | Programming project   * Evaluation | |  |  |  |  |  |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |

\* Based on 1 hour of teaching time per week

**Topic, level, semester, sequence**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Digital Systems** |  | **Data and Information** |  | **Creating Digital Solutions** |  |

# Curriculum Area Plan: Digital Technologies - Years 5 and 6 (Sample Program 3)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| **Year 5** | **Semester 1** |  |  |  |  |  |  |  |  |  |  |  | **Components of digital systems – 5.1.1** | | | | **Examination of whole numbers – 5.1.2** | | |
|  |  |  |  |  |  |  |  |  |  |  | Digital Systems Investigation | | | | Numbers Activity | | |
| **Semester 2** | **Interpret and visualise data – 5.2.1** | | | | **Online collaborative projects – 5.2.2** | | | |  |  |  |  |  |  |  |  |  |  |
| Student Survey Project   1. Collect and interpret data | | | | Student Survey Project   1. Communication of findings | | | |  |  |  |  |  |  |  |  |  |  |
| **Year 6** | **Semester 1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Semester 2** |  | **Define problems – 6.2.1** | | **Design user interface – 6.2.2** | | | **Design algorithms – 6.2.3** | | | **Develop simple visual programs – 6.2.4** | | | | | | **How solution meets needs**  **– 6.2.5** | |  |
|  | Programming Project   1. Analysis - Requirements | | Programming Project   1. Design | | | | | | Programming Project   1. Development | | | | | | Programming Project   1. Evaluation | |  |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |

\* Based on 1 hour of teaching time per week

**Topic, level, semester, sequence**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Digital Systems** |  | **Data and Information** |  | **Creating Digital Solutions** |  |