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Central School

Home School Package

**Year :11**



The Year 11 earth science students will be working on their IA for the first two weeks (weeks 4 and 5).

You will find included the IA task itself and instructions on what should it done.

There is also attached a work plan that should help guide the students over the two week period.

Lesson content for Weeks 6-8 will be uploaded on the website accordingly. So please keep checking the website for your lessons for weeks 6-8

**HOMESCHOOL PACKAGE CONTENT**

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**YEAR 11 EARTH SCIENCE IA WORK PLAN.**

Research Project on Earth Realms and their interaction Teacher Design Task

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Lesson | SLO |  |
| 4 | 1 | |  |  |  | | --- | --- | --- | | 11ESC 1.3.1.1 | Define lithosphere | 1 | | 11ESC 1.3.1.2 | Define hydrosphere | 1 | | 11ESC 1.3.1.3 | Define biosphere | 1 | | 11ESC 1.2.1.1 | Define atmosphere | 1 | |  |
| 4 | 2 | |  |  |  | | --- | --- | --- | | 11ESC 1.3.2.1 | Describe exchanges between the atmosphere, lithosphere, hydrosphere and the biosphere | 2 | | 11ESC 1.3.2.3 | Describe the reservoirs of carbon | 2 | |  |
| 4 | 3 | |  |  |  | | --- | --- | --- | | 11ESC 1.3.2.2 | Describe carbon as a basic chemical element in the biosphere | 2 | | 11ESC1.3.3.1 | **Explain** why carbon is considered the basic chemical element in the biosphere | 3 | |  |
| 5 | 1 | |  |  |  | | --- | --- | --- | | 11ESC 1.3.3.2 | Compare these reservoirs; atmosphere, hydrosphere, lithosphere and biosphere in terms of carbon content. | 3 | |  |
| 5 | 2 | |  |  |  | | --- | --- | --- | | 11ESC 1.3.4.1 | Draw a descriptive diagram to show exchanges between the lithosphere, hydrosphere, atmosphere and biosphere. | 4 | |  |
| 5 | 3&4 | Write Final Draft |  |

Task 1: Research Project on Earth Realms and their interaction Teacher Design Task (TDT) **(16%)**

**Research Project**

* This will be a research project based largely on data collected through research. The focus is on carbon and its exchanges between its different reservoirs. Emphasis must be placed on researching, processing and presenting the data by students themselves. Students can work in groups to collect the information but each student is responsible for their own write-up.
* This research project account for **16%** of total course work.
* Students must be issued with a copy of the marking rubric for this assessment.
* Approximately 3 hours of class time should be allocated to this task, together with a week and a half of out-of class time.
* Duration of this task should be no more than two weeks.
* Once the required data has been collected through research, students should collate the data into manageable form and process it themselves, although guidance by the teacher is acceptable.
* Students should present data collected through research to address the specific learning outcomes of the project.
* The report should be illustrated with relevant geographical illustrations (sketches and/or diagrams).

|  |  |  |
| --- | --- | --- |
| **CODE** | **SPECIFIC LEARNING OUTCOME (SLO)** | **SKILL LEVEL** |
| 11ESC 1.3.1.1 | Define lithosphere | 1 |
| 11ESC 1.3.1.2 | Define hydrosphere | 1 |
| 11ESC 1.3.1.3 | Define biosphere | 1 |
| 11ESC 1.2.1.1 | Define atmosphere | 1 |
| 11ESC 1.3.2.1 | Describe exchanges between the atmosphere, lithosphere, hydrosphere and the biosphere | 2 |
| 11ESC 1.3.2.3 | Describe the reservoirs of carbon | 2 |
| 11ESC 1.3.2.2 | Describe carbon as a basic chemical element in the biosphere | 2 |
| 11ESC1.3.3.1 | **Explain** why carbon is considered the basic chemical element in the biosphere | 3 |
| 11ESC 1.3.3.2 | Compare these reservoirs; atmosphere, hydrosphere, lithosphere and biosphere in terms of carbon content. | 3 |
| 11ESC 1.3.4.1 | Draw a descriptive diagram to show exchanges between the lithosphere, hydrosphere, atmosphere and biosphere. | 4 |

**Scoring rubric** (how you will be marked)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task Item and SLO code** | **Skill Level** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| Define lithosphere  (11ESC 1.3.1.1) | 1 | Lithosphere is appropriately and fully defined |  |  |  |
| Define hydrosphere (11ESC 1.3.1.2) | 1 | Hydrosphere is appropriately and fully defined |  |  |  |
| Define biosphere (11ESC 1.3.1.3) | 1 | Biosphere is appropriately and fully defined |  |  |  |
| Define atmosphere (11ESC 1.2.1.1) | 1 | Biosphere is appropriately and fully defined |  |  |  |
| Describe exchanges between the atmosphere, lithosphere, hydrosphere and the biosphere  (11ESC 1.3.2.1) | 2 | A brief description of the exchange of carbon between the atmosphere , lithosphere, hydrosphere and biosphere is included | A comprehensive description of the exchange of carbon between the atmosphere , lithosphere, hydrosphere and biosphere is included |  |  |
| Describe the reservoirs of carbon  (11ESC 1.3.2.3) | 2 | A brief description of carbon reservoir is included | A comprehensive description of carbon reservoir is included |  |  |
| Describe carbon as a basic chemical element in the biosphere  (11ESC 1.3.2.2) | 2 | A brief description of as a basic chemical element in the biosphere is included | A comprehensive description of carbon as a basic chemical element in the biosphere is included |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Explain** why carbon is considered the basic chemical element in the biosphere  (11ESC1.3.3.1) |  | Why carbon is considered the basic chemical element in the biosphere is mentioned | Why carbon is considered the basic chemical element in the biosphere is described more than explained | Why carbon is considered the basic chemical element in the biosphere is comprehensively explained |  |
| Compare these reservoirs; atmosphere, hydrosphere, lithosphere and biosphere in terms of carbon content.  (11ESC 1.3.3.2) | 3 | Comparison of reservoirs in terms of carbon content is adequate and does not contain any values for the reservoirs in their comparisons | Comparison of reservoirs in terms of carbon content is adequate and contains values for only some reservoirs in their comparisons | Comparison of reservoirs in terms of carbon content is comprehensive and contains values for all reservoirs in their comparisons |  |
| Draw a descriptive diagram to show exchanges between the lithosphere, hydrosphere, atmosphere and biosphere. (11ESC 1.3.4.1) | 4 | Incomplete descriptive diagram is drawn | Descriptive diagram is drawn but lacks on exchanges between the lithosphere, hydrosphere, atmosphere and biosphere | Descriptive diagram is drawn to show few detailed information on exchanges between the lithosphere, hydrosphere, atmosphere and biosphere | Descriptive diagram is drawn to show detailed information on exchanges between the lithosphere, hydrosphere, atmosphere and biosphere |



**WEEKLY CHECKLIST For Parents**:

Term: 2 Week number 1 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 2 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 3 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 4 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 5 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 6 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 7 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 8 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 9 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 10 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 11 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 12 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |

Term: 2 Week number 13 Date…… to…… Month: …………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject** | **Number of lessons** | **Days** | **Tick when activity is complete** | **Parents comment** | **Signature** |
|  | **1** |  |  |  |  |
|  | **2** |  |  |  |  |
|  | **3** |  |  |  |  |
|  | **4** |  |  |  |  |
|  | **5** |  |  |  |  |
|  | **6** |  |  |  |  |