

**Teaching and Learning Content: Science**

**Year Group: 11**

**Spring Term - Half Term 4**



**Ecology**– Students will be able to explain how factors affecting ecosystems impact the interdependence on food webs,  
**Atmosphere** – Students will be able explain the composition of the atmosphere and how our atmosphere has evolved.  
**Using Resources**- Students will be able to explain how life cycle assessments can lead to sustainable products

**Home Learning:**

Your son/daughter will be provided with a knowledge organiser and will be provided with questions to answer based on the core concepts taught. Students are expected to have their homework completed by the end of every topic.

**Key Questions:**

**Ecology**

- Why may pyramids of number look wrong?
- What do producers do?
- Explain how to use and quadrat and line transect?

**Atmosphere**

- What is the composition of the different gases in our atmosphere?
- What is the approximate age of the earth? When did life evolve?
- How was oxygen and carbon dioxide added to our atmosphere?

**Using Resources**

- What is potable water?
- How do we make water potable?
- Describe the different parts of a life cycle assessment?

**Diagnosis**

- Recall Quiz
- Hinge Questions and Exit tickets
- Deliberate Practice Questions
- Feedback from teachers marking.

**Therapy**

- DIRT lesson – Respond to teachers marking.

**Students will:**

**Ecology**

- Be able to describe the different parts of a food web.
- Be able to describe how to use a quadrat and line transect

**Atmosphere**

- Be able to describe the composition of our atmosphere
- Be able to explain how our atmosphere has evolved.

**Using Resources**

- Be able to describe how to make water potable.
- Be able to explain the different parts of a life cycle assessment.

**Testing**

- Final end of topic test.