**ICT Opportunities:**

Digital photographs – child led

Video diary – child led

Research plant and animal adaptations on the internet – child led

**Vocabulary:** Habitat, adaptation, ecosystem, environment,exoskeleton, organism, biodiversity, evolution, natural selection.

**NC References:**

Living organisms are interdependent and show adaptations to their environment

Organisms are interdependent and are adapted to their environment

The importance of biodiversity

Positive and negative human interactions with ecosystems.

**Resources:**

Swanage Pier Presentation

Swanage Pier worksheets photocopied

**Link to next session:**

The process of natural selection leading to evolution.

The evidence for evolution

The importance of biodiversity

**Links to PSHE, Citizenship or Global Citizenship:**

* Collaboration
* Team building
* Communication

**Pupil Age: 9-11**

The Swanage Pier Trust has prepared this plan, presentation and resources for school groups visiting Swanage Pier. The plan and teaching resources are editable to enable them to be tailored to the different needs of student groups.

**Year Group: Y10/ 11**

**Subject / Theme of Lesson:**

Adaptation – To understand the different adaptations that plants and animals have and how these aid their survival.

**Timing Overview of lesson**

**5 min Introduction to the theme.** To understand the different adaptations that plants and animals have and how these aid their survival.

Discuss learning objective and aims.

**40 min. Presentation**

Presentation can be delivered in the classroom or in the Swanage Pier education room.

**Activities**

Activities should be completed on Swanage Pier. In bad weather the Swanage Pier education room can be used as this provides a view of the Pier.

Activities can be completed individually, in pairs or in small groups.

**40 min. Activity Differentiation:**

**LA:** Additional support to be provided by teaching assistant to help guide students through the activities and looking for clues in the Swanage Pier exhibition.

**MA:** Students can be encouraged to provide more detailed answers for activities 2-4.

Extra Activity: Biodiversity in an environment is indicated by numbers of different species of plants and animals. Brainstorm some reasons why Biodiversity is important. Create a mind map showing the importance of biodiversity.

**5 min Plenary / Reflection on the learning**

Initiate discussion based upon their experiences and question it further through a dialogic based approach.

5-5-1 - Summarise today’s topic in 5 sentences. Reduce to 5 words. Now to 1 word.

**‘Child Speak’ Objectives:**

1. I know what makes a good habitat
2. I know that plants and animals have adaptations that aid their survival
3. I can describe and give examples of anatomical, behavioral and physiological adaptations
4. I can identify different adaptations of different plants and animals and describe the benefit that they provide.

**Learning Objectives:**

To know what makes a good habitat

To know that plants and animals have adaptations that help them survive

To describe anatomical, behavioral and physiological adaptations

To identify the different adaptations of different plants and animals and describe the benefit of those adaptations.

**How the learning will be assessed:**

Teacher/Facilitator: Observation/questioning/photography/discussions

Child led: Photography/video/discussions/peer