

# Geology, Palaeontology & Evolution



## *Cultural Guiding*

**In South Africa**

Embrace this land, Love our People, Be Informed

In association with  and  *WildlifeCampus*  
LEARN / PROTECT / SAVE

### **Module # 1 – Introduction**

**Component # 1** – Introduction to Earth and Life

### **Module # 2 – Earth**

**Component # 1** – How the Earth Works Part # 1 – Internal Mechanics

**Component # 2** – How the Earth Works Part # 2 – Plate Tectonics

**Component # 3** – How the Earth Works Part # 3 – Colliding Continents

### **Module # 3 – Extraterrestrial Geology**

**Component # 1** – Astrophysics & Extraterrestrial Geology

### **Module # 4 – Continents**

**Component # 1** – The First Continent

**Component # 2** – Richest Piece of Real Estate on Earth

**Component # 3** – Vredefort Dome Meteor Impact

**Component # 4** – Supercontinents

### **Module # 5 – Life**

**Component # 1** – Creating the Atmosphere for Life

**Component # 2** – Early Life in our Planet

### **Module # 6 - Gondwana**

**Component # 1** – The Rocks of Gondwana

## **Module # 7 – Fossils and Dinosaurs**

**Component # 1** – Palaeontology and Palaeobotany

**Component # 2** – Reptiles and Mass Extinctions

**Component # 3** – Dinosaurs Dominate

## **Module # 8 – The Modern World Takes Shape**

**Component # 1** – Oceans, Oil, Diamonds & Collapse of the Global Ecosystem

**Component # 2** – Changes in Climate, Grasslands, Rivers & Deserts

## **Module # 9 – Hominidae**

**Component # 1** – The Arrival of Humans

**Component # 1** – Hominins on the Highveld

## **Module # 10 – The 6<sup>th</sup> Extinction ?**

**Component # 1** – Earthquakes, Volcanoes and Killer Asteroids

**Component # 2** – Lessons from the Past for the Present and Future