

## Grade 9 – GEOGRAPHY SYLLABUS 2017-2018

### **Class Organization:**

- ✚ Each Grade 9 class has three (3) schedule contact periods each week for Geography – a double (1 hr & 10 min.) and a single period (35mins.)
- ✚ Physical and Human Geography topics are covered during the double period.
- ✚ Mapwork Geography is covered during the single period.

### **Term 1 Topics:**

#### ❖ **New Directions in Geography**

- Careers in geography
- Human activities and Climate Change (deforestation, and activities that leads to emission of CO<sub>2</sub> and other greenhouse gases)
- Impact of Climate Change in the Caribbean and either USA or UK (sea level rise,- examples of increased coastal flooding, impacts on coral reefs, coastal wetlands and settlements, changes in weather patterns and their impacts)
- Measures to reduce impact of climate change in the Caribbean and either USA or UK
- Impact of Economic Recessions
- Global Security-Disease Spread and Terrorism

#### ❖ **World: Population (Introduction)**

- Distribution of World Population (factors affecting world distribution and the Caribbean)
- Population Change in the Caribbean with either India or China (birth rate, death rate, natural increase, migration, fertility rate, life expectancy and government policies)
- Migration (define key terms)
  - Push and pull factors of migration (regional and international)
  - Consequences of migration to receiving and losing country

#### ❖ **Development**

- Definition of development (types of development: Human, Sustainable and Economic)
- List of indicators of development
- Indicators of development in MEDC and LEDCS

#### ❖ **Review earth's structure** – types and characteristics of Crust, Mantle and Core.

#### ❖ **Theory of Continental Drift** – History of the theory and evidence of the theory

❖ **Theory of Plate Tectonics and related features**

- Types of plates: Major and minor
- Location of plates around the world
- Types of plate margins
- Location of crustal plates and plate margins around the Caribbean Plate
- Formation of features at each plate margin, with aid of diagrams

• **Earthquakes**

- Definition and causes of earthquakes
- Earthquake terms: focus/hypocenter, epicenter, fault, seismic/shock waves.
- Types of earthquakes plate boundary and plate interior earthquakes
- Location of earthquakes in the Caribbean in relation to plate boundaries.
- Impact of Specific earthquakes on life and property in the Caribbean
- Individual, national and Regional response to earthquakes in named Caribbean Country. (Mention ODPEM and CDEMA)

• **Volcanoes**

- Location of volcanoes in the Caribbean and the World in relation to plate boundaries
- Types of intrusive volcanic features – sills, dykes, batholiths, laccoliths
- Types of extrusive volcanic features- shield volcanoes, composite volcanoes, ash and cinder volcanoes, caldera, volcanic plug. Lave plateau
- Relationship between type of lava and type of volcanoc formed and type of eruption.
- Changes in intrusive and extrusive volcanic features overtime
- Positive and negative effects of volcanic eruptions in the Caribbean
- Case Study: Soufriere Hills in Montserrat eruption
- Individual, National and Regional response to Volcanoes in a named Caribbean Country

• **Folding of Rocks**

- Types/ Stages of Folding
- Formation of Fold Mountains and examples

• **Faulting of Rocks**

- Types faulting and examples
- Formation of Faulted Landforms: Rift valley, Horst/block mountains and examples

❖ **Physical Geography**

• **Biomes**

- Locate on a map the different types of biomes

- Describe the characteristics of the Equatorial and Tropical Marine Climates
- (Temperature, precipitation, pressure)
- Characteristics of Tropical Marine and Equatorial Rainforest Biomes (vegetation and soil)
- Influence of Environmental and human factors on biomes (climate, soil, biotic conditions)
- Inter-relationship among climate, vegetation and soil in the tropical rainforest
- Positive and negative impacts of human activities on tropical forest biomes

### ***Term 3 Topics - April – May***

- ***Resources and Economic Activities***

- Define the term resources
- Distinguish between renewable and non-renewable resources
- Definition of economic activities
- Classification of economic activities: Primary, Secondary, Tertiary and Quaternary (simple description, no details required)
- name and locate examples of primary, secondary and tertiary activities in the Caribbean
- Name and locate areas within Caribbean countries with natural resources used for commercial purposes (forest, fish, limestone, bauxite, petroleum, natural gas and gold,)

- **Primary and Secondary Economic activities**

- Differentiate between Commercial, Subsistence, semi-subsistence, Pastoral, Mixed, Peasant and Arable farming (brief description of each)
- Differentiate between heavy, light and manufacturing/ processing industries.
- Give examples of heavy, light and manufacturing/ processing industries.

- **Tertiary Activities**

- Resources used in Tourism
- Location of tourism in Jamaica
- Brief description of Tourism in the Caribbean: Factors influencing Tourism, origin of Tourist, impact of Tourism
- Importance of Tourism
- Impact of climate change on tourism

- **Caribbean Weather Systems**

- Caribbean Weather Systems – ITCZ, Hurricane, Easterly Waves, Cold Front, Anticyclone
- For each weather Symbol: Definition, Impact, Symbol, Affected Countries
- Identify Caribbean weather systems on a map.

## Mapwork

- Geographical Division of the Caribbean and Location of Caribbean Countries

### Map Skills:

- Finding Compass Directions using 16-point compass
- Finding Compass/ Angular Bearings
- **Representation of height methods** – contours, spots heights, trigonometrical stations.
- **Recognition of Simple Landforms:** Recognition of simple contour landforms e.g. valleys, slopes, hills, spurs, col/saddle, ridges, plain etc.
- **Cross Section** -Draw simple cross sections from topographic maps for types of hills, mountains, valleys, spurs, types of slopes, col/saddle, ridges, plain etc.
- Interpret maps, pictures, pie charts, graphs, tables.
- Population Maps (choropleth, isopleth and dot maps)
- Identify boundaries and make comparisons on distribution maps.
- Present data in the form of simple choropleth and flow line maps.
- **Grid Reference**
  - Locate places using four and six figure grid references.
- **Latitude and longitude**
  - Definition and location of both lines
  - Names and location of important lines e.g. Prime meridian, equator etc.
  - Use lines of latitude and longitude to locate places
- **Longitude and time Calculations**
  - Calculate time occurring at specified longitude lines and determine longitude location of given time.
- **Types of Scales** – Linear, Ratio/Representative Fraction, Direct Statement
  - Measuring distance using a linear Scale