

**PROPOSED OUTLINE IN PHYSIOGRAPHY FOR GRADES X AND XI  
IN THE PROVINCE OF QUEBEC**

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**1. Rocks:—**

- (a) The common rock-forming minerals (quartz, the feldspars, calcite, the micas, hornblende, magnetite).
- (b) Classification of rocks: (sedimentary, igneous, metamorphic).
- (c) The ability to recognize and classify simple specimens.

**2. Weathering and Erosion:—**

- (a) Agents of Weathering: (atmospheric gases and temperature, water, organisms).
- (b) Rate and Results of Weathering.
- (c) Agents of Erosion: (wind, rivers, oceans, lakes and glaciers, gravity, ice); their effects.

**3. Rivers and River Valleys:—**

- (a) Terminology.
- (b) Sources.
- (c) River erosion (corrosion, corrasion, solution).
- (d) Young streams (initial drainage on plains, plateaus or mountains; lakes, gorges, tributaries, waterfalls, nature of sediment carried).
- (e) Mature streams (valleys; development of tributaries, flood plains, terraces, deltas and alluvial fans).
- (f) Old Streams (peneplains, base level, nature of divides and of tributaries).
- (g) Unusual conditions (potholes, beaver-meadows, piracy, rejuvenation of rivers).

**4. Lakes, Swamps and Underground Water:—**

- (a) Origin of lakes.
- (b) Salt lakes—their causes.
- (c) Causes for removal of lakes.
- (d) Origin of swamps.
- (e) Ground water, springs, underground streams, sink holes, natural bridges, stalactites, stalagmites.
- (f) Artesian Wells.

**5. Plains and Plateaus:—**

- (1) General characteristics of plains.
- (2) Origin of plains.
- (3) Climate, drainage and erosion of plains.
- (4) General characteristics of plateaus.
- (5) Origin of plateaus.
- (6) Climate, drainage and erosion of plateaus.

**6. Mountains:—**

- (a) Mt. terminology.
- (b) Distribution of mountains.
- (c) Origin of mountains.
- (d) General characteristics of and different types of mountains.
- (e) Climate, drainage and erosion of mountains.
- (f) Life history of Mountains.

