Summer Field School on
MOUNTAIN ECOSYSTEMS &
RESOURCE MANAGEMENT

11-20 September 2023 | Hybrid
Carpathian Mountains, Hungary
www.grassrootsglobal.net/mer2023

Mountain Ecosystems and Diversity of Landscapes

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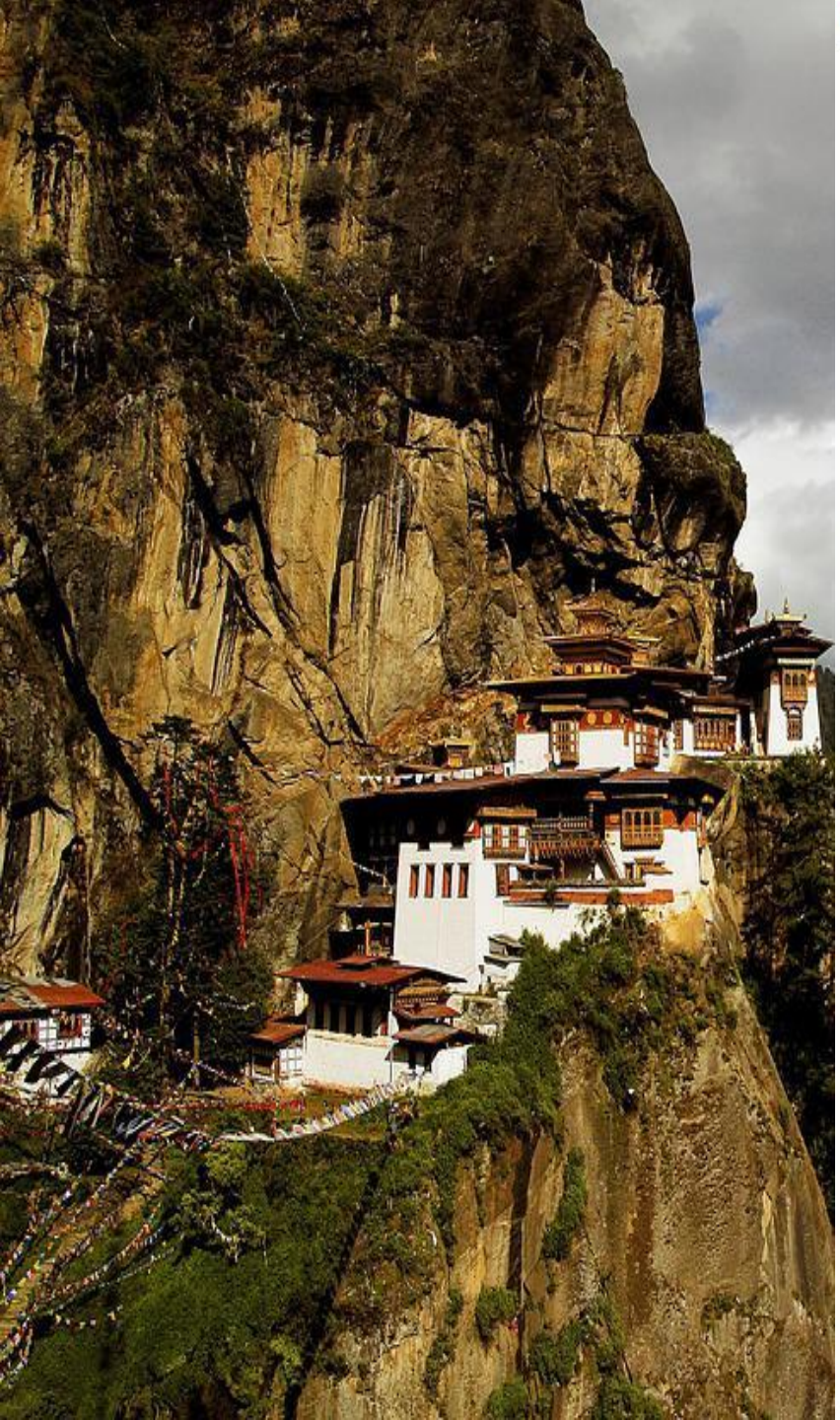
Defining the mountains

- Google Classroom Quiz Question 1

- A mountain is elevated landform that rises above the surrounding landscape. Mountains are created by the movement of the Earth's tectonic plates.

Defining the mountains

- ✓ Largest and highest area of mountain lands in the Himalaya-Tibet region;
- ✓ Longest continuous mountain range is that along the west coast of the Americas from Alaska in the north to Chile in the south.
- ✓ Other significant areas of mountain lands in Europe (Alps, Pyrenees), Asia (Caucasus, Urals), New Guinea, New Zealand, and East Africa.



WORLD: MAJOR MOUNTAINS AND MOUNTAIN RANGES

ARCTIC OCEAN
Arctic Circle
EUROPE
ASIA
NORTH AMERICA
Ural Mountains
Carpathian Mountains
Alps
Mt Blanc 4807 m
Mt Elbrus 5633 m
Caucasus Mountains
Mt McKinley 6194 m
Mt Logan 5951 m
Mackenzie Mountains
Rocky Mountains
Appalachian Mountains
Hindu Kush
Kunlun Mountains
K2 8611 m
Himalayas
Mt Everest 8848 m
Atlas Mountains
Tropic of Cancer
PACIFIC OCEAN
AFRICA
Equator
Mt Kenya 5201 m
Mt Kilimanjaro 5895 m
ATLANTIC OCEAN
INDIAN OCEAN
Tropic of Capricorn
AUSTRALIA
Great Dividing Range
Mt Kosciuszko 2228 m
Drakensberg Mountains
Ojos del Salado 6891 m
Mt Aconcagua 6962 m
N
0 2000 4000 6000 km
LEGEND
Mountain
Land over 2000 metres
Land 1000 to 2000 metres
Antarctic Circle
SOUTHERN OCEAN
ANTARCTICA
Mt Tyree 4852 m
Vinson Massif 5140 m
Transantarctic Mountains

Defining the mountains

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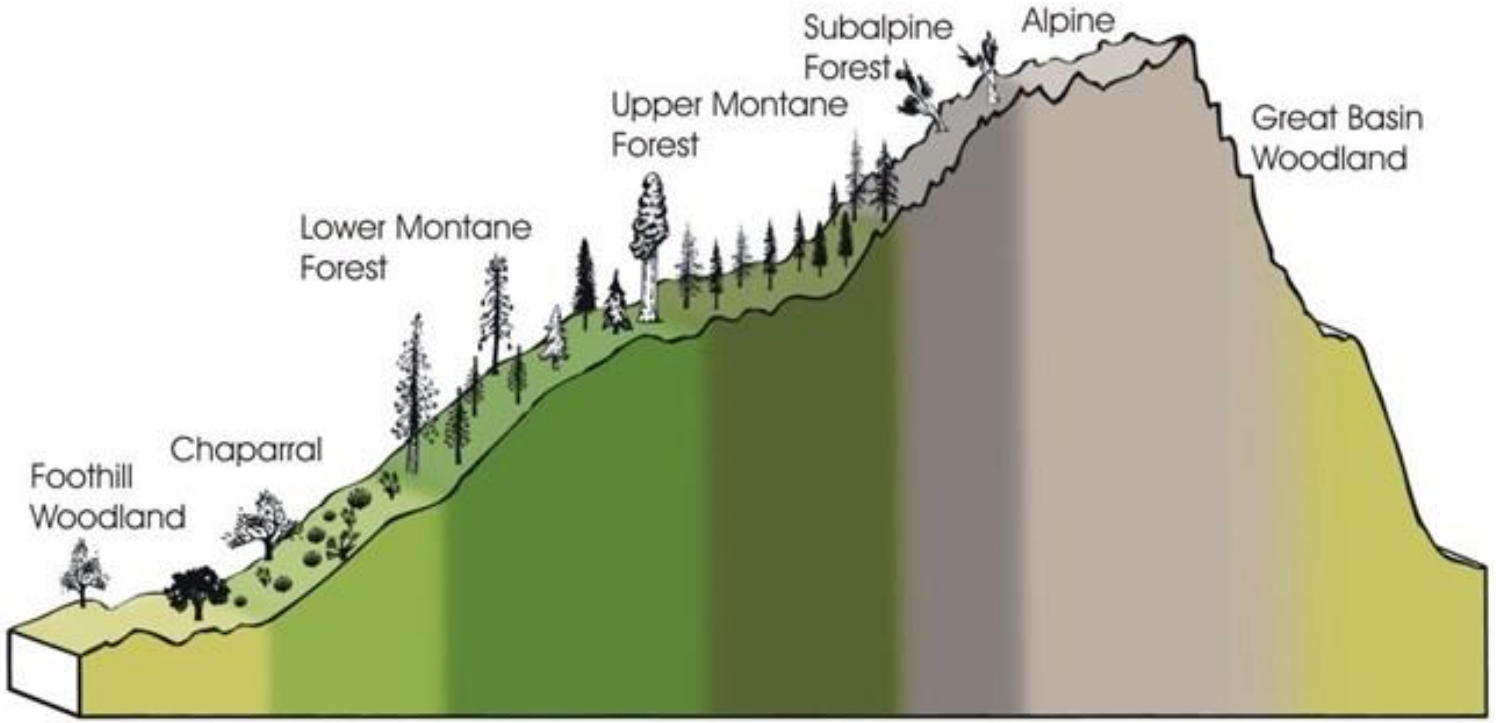
- ✓ In some countries, minimum height should be 1000 m, whereas in other countries it needs to be 2500 m.

How Mountains Are Formed
Watch Later
Share
1:01 / 4:10 • Introduction
YouTube

Sketches of mountains ecosystems



Vegetation zones on the west slope of the Sierra Nevada, from the oak woodlands and chaparral shrubland in the low-elevation foothills, to mid-elevation montane forests, subalpine forests that extend to the upper limit of tree growth, and the alpine zone that includes perennial herbs and shrubs. *Illustration by: Justin Hofman and Meryl Goldin Rose*

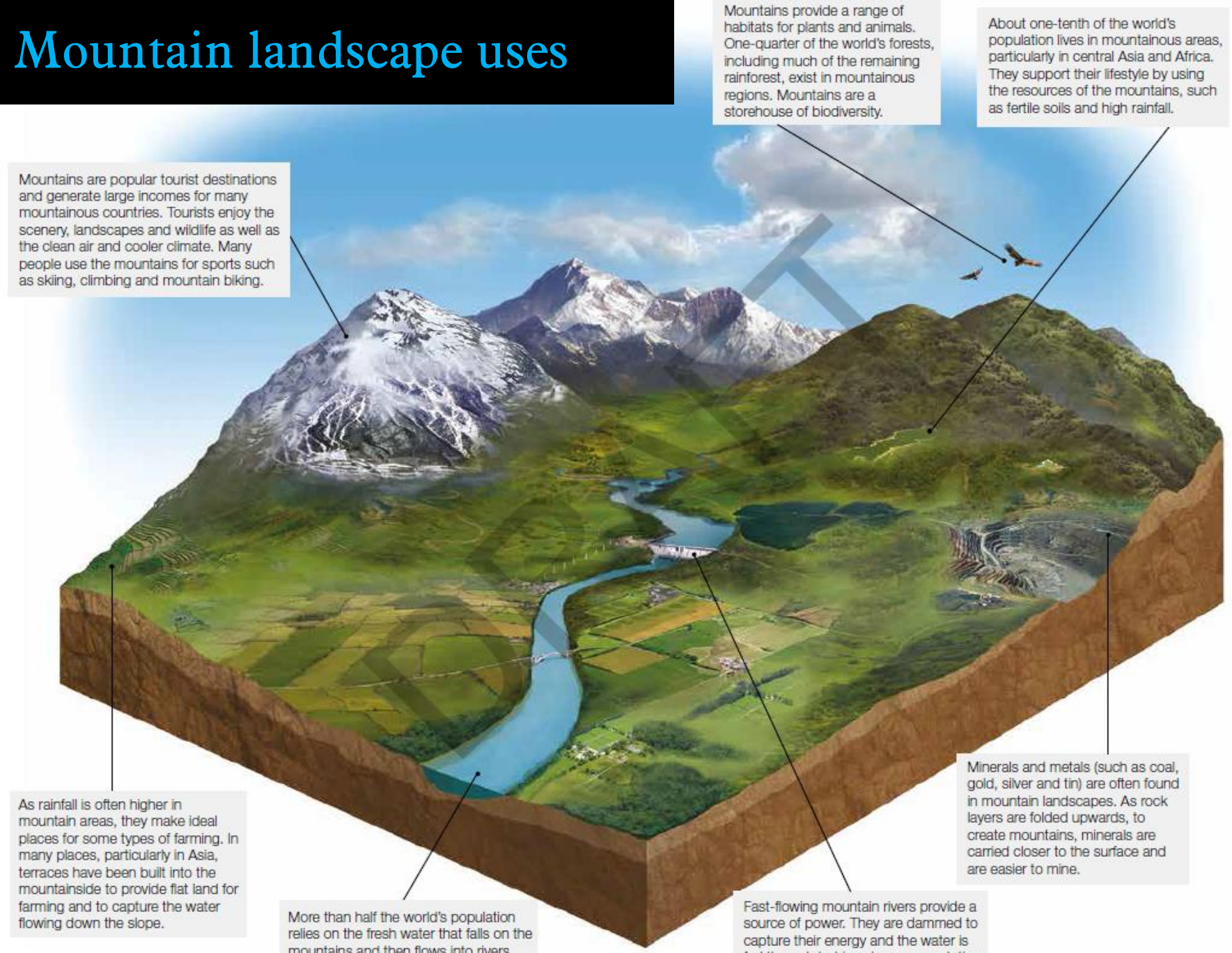
Characteristics of Mountains

- They have a significant height above the sea level or land surrounding it.
- Steeper and higher than hills.
- Peak – It is the pointed top of the mountain
- Climate varies as we move above the base of the mountain. Usually, mountains have a cold and wet climate which is accompanied by a thin layer of oxygen.
- Flora and fauna.
- Adaptation in plant and animals can be seen due to the presence of extreme climate.

Mountain landscape

- **A mountain landform is defined as a place that rises at least 300 metres from the surrounding area.**
- **Everything you can see when you look across a large area of land.**
- **A large area of countryside, usually one without many buildings or other things that are not natural**

Mountain landscape uses



Attempt Survey Questions on Zoom

Google Classroom Quiz Question 2