

Students: fill in next to the word answer and return the document for assessment.

Geography

Mountain and volcano

Book: The Mountain Book

Pages 20-27

Everything here is based on our Curriculum Visions book The Mountain Book.

In this segment we are going to think about what happens to the weather in mountains.

You will need to go to page 20 of the book.

Part 1

Look at the mountain diagram. On that diagram, what is the height of the snowline?

Answer.....
4000m

What happens to a snowline in summer?

Answer.....
It rises because the air is warmer.

Part 2

Look at the diagram on page 21. Which side gets most rain – the side facing the wind, or the side sheltered from the wind?

Answer.....
The side facing the wind. This is called the windward side. Note that as this is a diagram of the Himalayas, the wet and dry seasons are very distinctive, which is why it has been chosen as a clear example above other places.

In chart A how wet is the wettest month?
In chart B how wet is the wettest month?

Answer.....
A is about 710 (but any answer from 700 to 720 will do) Chart B is 60

Optional Maths challenge: how many time wetter is the rainy side from the dry side in that month?

Answer.....
 $710/60 = 11.83$ to 2 decimals or 11.9 times to 1 decimal – that is approximately 12 times. Note this can test both dividing and number rounding skills

Part 3

Turn to page 22. What are tree problems faced by people in mountains?

Answer.....

Avalanche, blizzard, snow clearance.

Part 4

Now Play the video on page 24. Make sure you watch it right through in full screen. It shows a ski resort and pistes in the Alps.

Where is the resort compared to the ski lift?

Where would the ski resort need to be if it was to stay open for as long as possible?

Answer.....

The resort is next to the ski lift. Resorts that are higher are above the snow line for longer. They have more access problems and it is more expensive to supply them, so they charge more.

Part 5

Now look at the picture at the top of page 27. It shows a summer hazard in mountain areas. What hazard is it showing, and why should you do what it says?

Answer.....

Flash floods are summer thunderstorm hazards. Mountain valleys are often narrow, and a flood will completely overwhelm areas by the river including camp sites and caravan parks.

If you interested in this topic continue to browse the book and watch our amazing videos. They start right on the book cover.

Or you may want to see related books. If so just go to the top of the screen, select geography, and from the page that opens choose Mountain or Volcano.