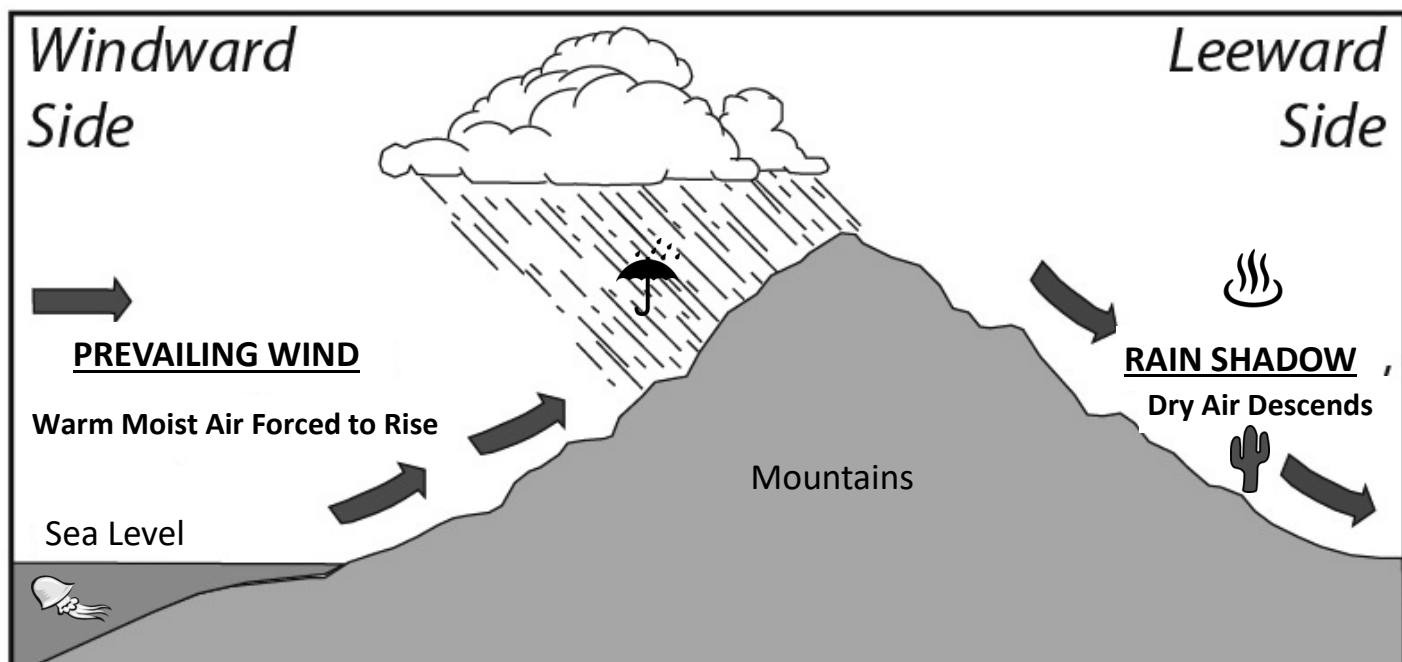


SKILLS in GEOGRAPHY



Orographic Rainfall

Using the information provided in the diagram, answer the following questions.



Warm Moist Air Rises → Air Cools → Condensation (Clouds) → Precipitation

N.B. A 'prevailing wind' is a wind that blows predominantly in a particular direction toward a particular location.

1. What is the title of the study? O _____ R _____
2. What landform dominates the centre of the diagram? M _____
3. Does the prevailing wind originate over a desert or over an ocean? _____
4. If wind (air) originates over the ocean, is it likely or unlikely to carry moisture? _____
5. When the prevailing wind meets the land, why does it rise? _____

N.B. Have you ever climbed a mountain? Is mountain air generally cooler or warmer? Cooler, right.

6. When 'warm moist air' rises, does the air increase or decrease in temperature? _____
7. When warm, moist air cools and condensation occurs, what forms in the sky? _____
8. If the air cools and condensation occurs, and clouds form, what might be expected? R _____
9. All the activity noted is occurring on which side of the mountain? W _____ S _____
10. When the wind passes over the mountain, is it now likely to rise or fall? _____
11. If the air descends 'down the mountain', is it becoming cooler or warmer? _____
12. As the air passes over the mountain and descends, does it contain more or less moisture? _____
13. Does the term 'Rain Shadow' refer to an area of lower rainfall or higher rainfall? _____
14. What name is given to the side of the mountain with warmer, dry air? L _____ S _____
15. Does this study explain why some coastal locations receive more rainfall than inland locations? Y/N _____