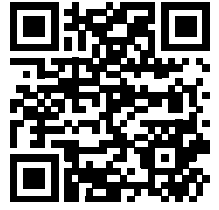


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# The Impact of Topography on Mapping the Earth



In cartography, the map serves as a tool to visualize the \_\_\_\_\_ surface. It shows not just the locations of cities and rivers, but also the \_\_\_\_\_, which includes mountains, valleys, and plains. Topography is crucial because it influences \_\_\_\_\_ patterns, human settlements, and transportation routes. For example, mountains can block rain, creating dry \_\_\_\_\_ on their leeward sides. Rivers, which are often highlighted on maps, play a vital role in shaping the \_\_\_\_\_ by eroding land and forming valleys. The \_\_\_\_\_ of an area is represented using contour lines, which are close together on steep slopes and far apart on flat lands. This method helps hikers and planners understand the \_\_\_\_\_ of terrain. In addition, topographic maps can assist in emergency \_\_\_\_\_ planning by indicating the best evacuation routes during natural disasters. The use of \_\_\_\_\_ is another important aspect; green usually represents lower elevations, while brown indicates higher \_\_\_\_\_. Satellite imagery has enhanced the accuracy of topographic maps, allowing for detailed \_\_\_\_\_ of remote areas. These maps are not only used by adventurers but also by scientists to study environmental \_\_\_\_\_ over time. Thus, the role of topography in cartography is to provide a detailed and accurate representation of the earth's \_\_\_\_\_ landscape, aiding in a wide range of human activities.

difficulty varied shadows topography landscape weather changes  
colors views altitudes earth's response elevation