

Name _____

The Inverted Investigation: A Vertigopolis Mystery

Open-Ended Response Answer Key

1. The unique gravity in Vertigopolis causes inhabitants to live on the ceilings of buildings, leading to a topsy-turvy daily life where walking, transportation, and even home design are completely different from conventional cities. Challenges include adapting to a world where everything is upside down and mastering the physics of the environment.
2. Detective Turner's gravity-reversal suit is crucial in allowing him to move freely in Vertigopolis, where gravity is reversed, and to conduct his investigation on the ceilings of buildings. Without the suit, he would be unable to navigate the unique environment and gather evidence effectively.
3. The reversal of gravity and unfamiliar laws of physics in Vertigopolis could create complexities by altering the dynamics of crime scenes, making evidence collection more challenging, and requiring detectives to understand the physics of the city to solve crimes. Additionally, suspects and witnesses would need to be well-versed in the peculiarities of their world.
4. A murder defying all known physics could be the result of experimental technology, a secret scientific breakthrough, or a vendetta among scientists with access to advanced knowledge. Possible motives include rivalry, the desire to protect a dangerous discovery, or the pursuit of a twisted scientific agenda.

