

Name _____

Hedy Lamarr: The Hollywood Star Who Pioneered Wireless Communication

Open-Ended Response Answer Key

1. Hedy Lamarr's contributions to technology include her invention of frequency hopping spread spectrum technology, which enabled secure and interference-resistant communication. This innovation became the basis for modern wireless technologies like Wi-Fi and Bluetooth, revolutionizing the way we communicate and connect in the digital age.
2. Hedy Lamarr faced challenges in being recognized for her technological contributions during her acting career, as her beauty and fame often overshadowed her passion for invention. However, her story inspires us to acknowledge the potential for innovation and creativity in unexpected places.
3. The invention of frequency hopping spread spectrum technology had a significant impact during World War II by providing secure and unjammable communication for torpedoes. This technology played a crucial role in military operations, ensuring the success and security of naval missions.
4. Hedy Lamarr's story serves as a powerful inspiration for future generations, showing that passion, curiosity, and creativity can lead to groundbreaking discoveries. Her legacy encourages individuals to pursue their interests, challenge conventions, and make a lasting impact on the world through innovation and invention.

