**Microsoft Quantum** is a cloud-based service that enables you to write and run quantum code, learn quantum concepts, and explore quantum applications. [It also provides roadmaps, blogs, and learning resources for building a quantum supercomputer and ensuring a quantum-safe future1](https://quantum.microsoft.com/).

Here are **five free reference links** where you can learn more about Microsoft Quantum:

1. [**Azure Quantum Homepage**](https://quantum.microsoft.com/): Explore quantum concepts, access code samples, and learn about quantum chemistry and materials science[1](https://quantum.microsoft.com/).
2. [**Microsoft Research - Quantum Computing**](https://www.microsoft.com/en-us/research/research-area/quantum-computing/): Discover Microsoft’s vision and progress in quantum computing, including software, applications, control, and devices[2](https://www.microsoft.com/en-us/research/research-area/quantum-computing/).
3. [**Azure Quantum Overview**](https://azure.microsoft.com/en-us/solutions/quantum-computing/): Learn about Azure Quantum’s tools and capabilities for quantum chemists and scientists, and join the co-innovation community with various quantum hardware providers[3](https://azure.microsoft.com/en-us/solutions/quantum-computing/).
4. [**Quantum Learning Resources**](https://learn.microsoft.com/en-us/azure/quantum/further-reading-qdk): Access interactive learning paths, Quantum Katas (self-paced Q# programming tutorials), documentation, case studies, and more[4](https://learn.microsoft.com/en-us/azure/quantum/further-reading-qdk).
5. [**Q# Blogs**](https://azure.microsoft.com/en-us/resources/training-and-certifications/quantum-computing/): Dive deep into technical topics with insights, coding examples, and updates directly from the Azure Quantum team[4](https://learn.microsoft.com/en-us/azure/quantum/further-reading-qdk).

Happy quantum exploration! 🌌🔬🚀