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| **Introduction to Quantum Computing** |  |

**Bloch sphere worksheet**

Here are some blank Bloch Spheres for representing qubits. Place a dot where you think the value should be. Put in a value where you see a dot.

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| Value = |1>  Where is the blue dot? | Value = |0>  Where is the blue dot? |
|  |  |
|  |  |
| Value = |0.5>  Where is the blue dot? | Value = |0.5>  Can the blue dot be somewhere different? |
|  |  |
|  |  |
| See the blue dot? What is the qubit value? | See the blue dot? What is the qubit value? |