

QUANTUM NUMBERS WORKSHEET

1. State the four quantum numbers, then explain the possible values they may have and what they actually represent.

n – Principal Quantum Number: represents the energy level the electron is in, linked to the periods of the periodic. Can be 1 to 7

l – Secondary Quantum Number/Orbital Shape Quantum number: represents the shape of the orbital- s, p, f, d. l is a range of $n-1$.

m_l – Magnetic quantum number: represents the number of orbits possible. M_l is a range of l .

m_s – Spin Quantum number: represents the electron and its spin. Two possibilities $+1/2$, $-1/2$

2. State the number of possible electrons described by the following quantum numbers

- a. $n = 3, l = 0$ **2**
- b. $n = 3, l = 1$ **6**
- c. $n = 3, l = 2, m_l = -1$ **2**
- d. $n = 5, l = 0, m_l = -2, m_s = -1/2$ **Not possible**

3. Give the n and l values for the following orbitals

- a. 1s **$n=1$ $l=0$**
- b. 3s **$n=3$ $l=0$**
- c. 2p **$n=2$ $l=1$**
- d. 4d **$n=4$ $l=2$**
- e. 5f **$n=5$ $l=3$**

4. What are the m_l values for the following types of orbitals?

- a. s **$m_l=0$**
- b. p **$m_l=-1, 0, 1$**
- c. d **$m_l=-2, -1, 0, 1, 2$**
- d. f **$m_l=-3, -2, -1, 0, 1, 2, 3$**

6. How many possible orbitals are there for $n =$

- a. 4 **s-1, p-3, d-5, f-7 = 16 orbitals**
- b. 6 **9 orbitals**

Transparency 14 Periodic Table Answers

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Chemistry John S. Phillips, Cheryl Wistrom, 2000 [Advanced Functional Materials for Sustainable Environments](#) R. K. Kotnala, Anjali Sharma Kaushik, S. Shankar Subramanian, Amit K. Vishwakarma, 2024-09-30 The book gives an insight into the latest research going on worldwide in the area of functional materials that specifically utilized for the energy harvesting storage and environmental monitoring Since the technology is moving very fast day by day it has become a need of hour to

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targeting regime is attributable to the flexibility of the framework its high standards of transparency and accountability and the lack of realistic alternatives *Glencoe Science* McGraw-Hill Staff,2001-06 **ICT Systems Security and Privacy**

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