

# Dale's Cone of Experience

EDG14 Developing learning resources II  
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*Tell me and I shall forget*  
*Show me and I may remember*  
*Involve me and I will understand*

Confucius

# Objectives

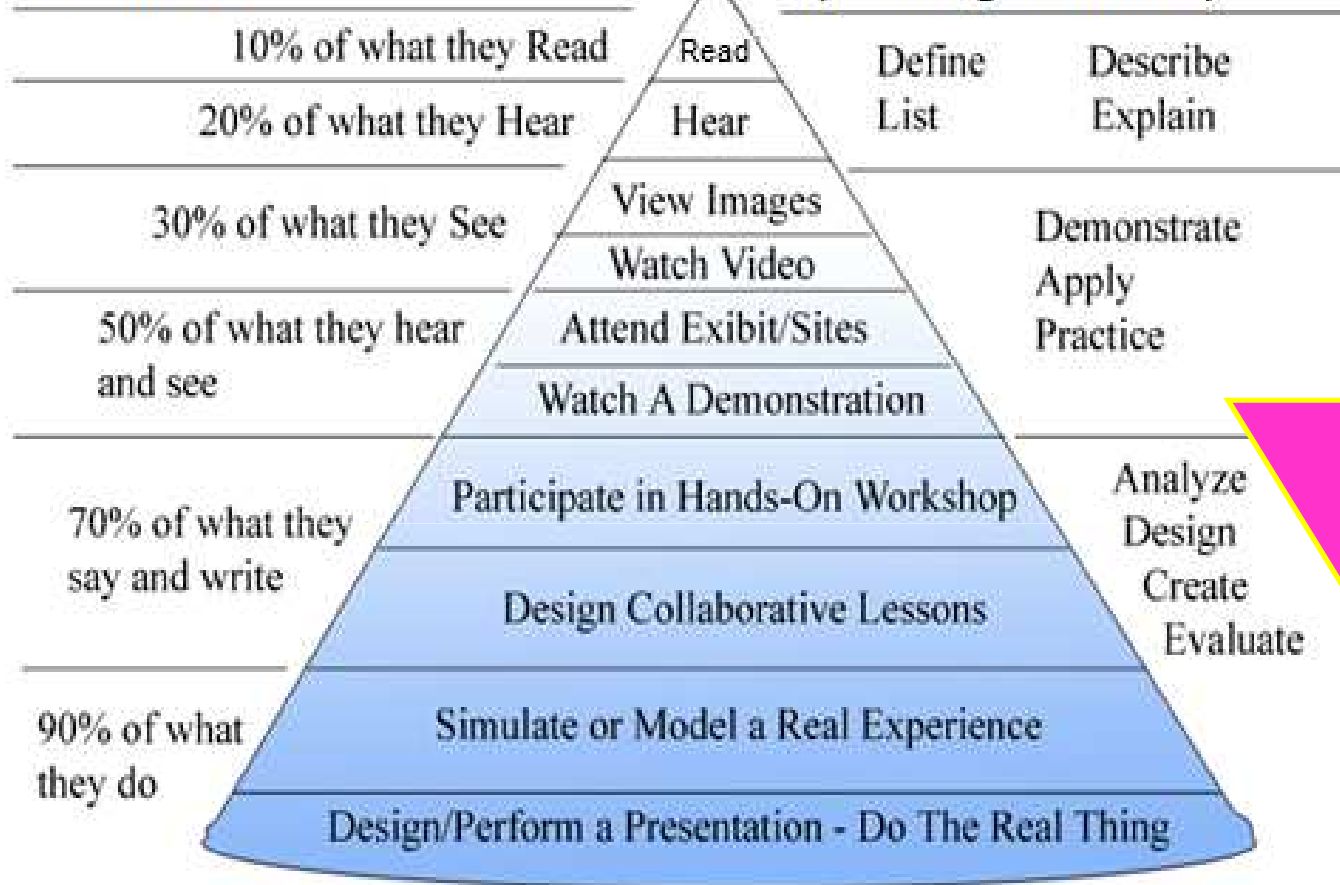
- We design a variety of learning resources
- A chance for students to:
  - learn new ideas (expand/refine prior knowledge)
- How effective are our learning resources?
- Dale's Cone of Experience
  - Ensure our activities and resources help to maximise learning

# Edgar Dale (1900 – 1985)

- An American educationist
- Researched audio/visual tools in teaching
- Cone of Experience
  - Students were taught using different modes/strategies
  - Tested retention after 6 weeks
  - Found that retention is related to strategies used in teaching:
    - Using verbal symbols (e.g. Lecture) - 5% retained
    - Reading and demonstration - less than 30% retained
    - Direct experience with phenomenon - more than 90% retention

Students generally remember

Students are able to:  
(Learning outcomes)



**More:**

Student engagement

Contextualised

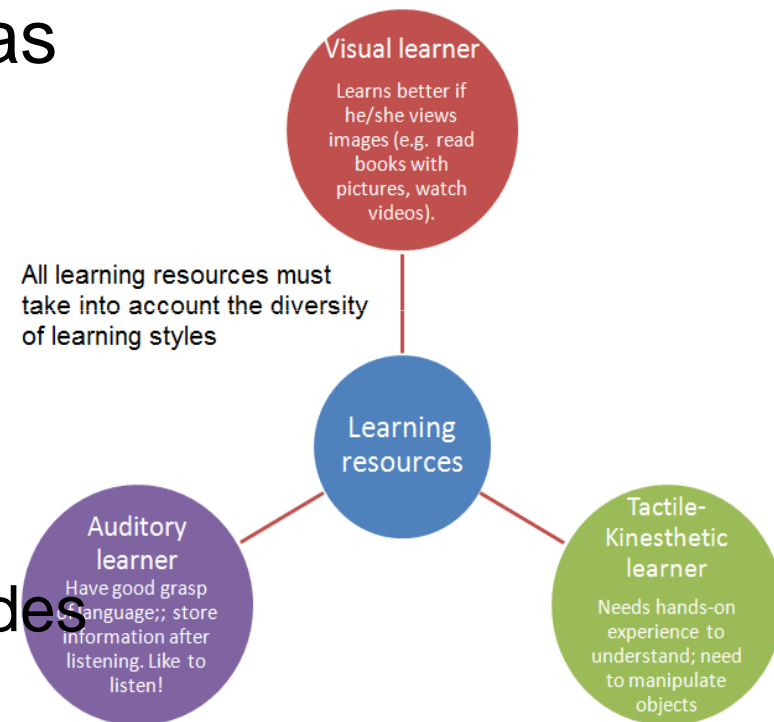
“Real-life”

## Dale's Cone of Experience

Adapted from: Raymond S. Pastore (2005). Principles of Teaching website. Available at: <http://teacherworld.com/pot.html>

# Conclusion

- Engage as many senses as possible (most important)
- Consider also these:
  - Context (local, global)
  - Different learning styles
  - Multiple intelligences
  - Jerome Bruner's Three modes of representation (enactive, iconic, symbolic)
  - Piaget's Developmental



# Criteria for constructing Visual-aids

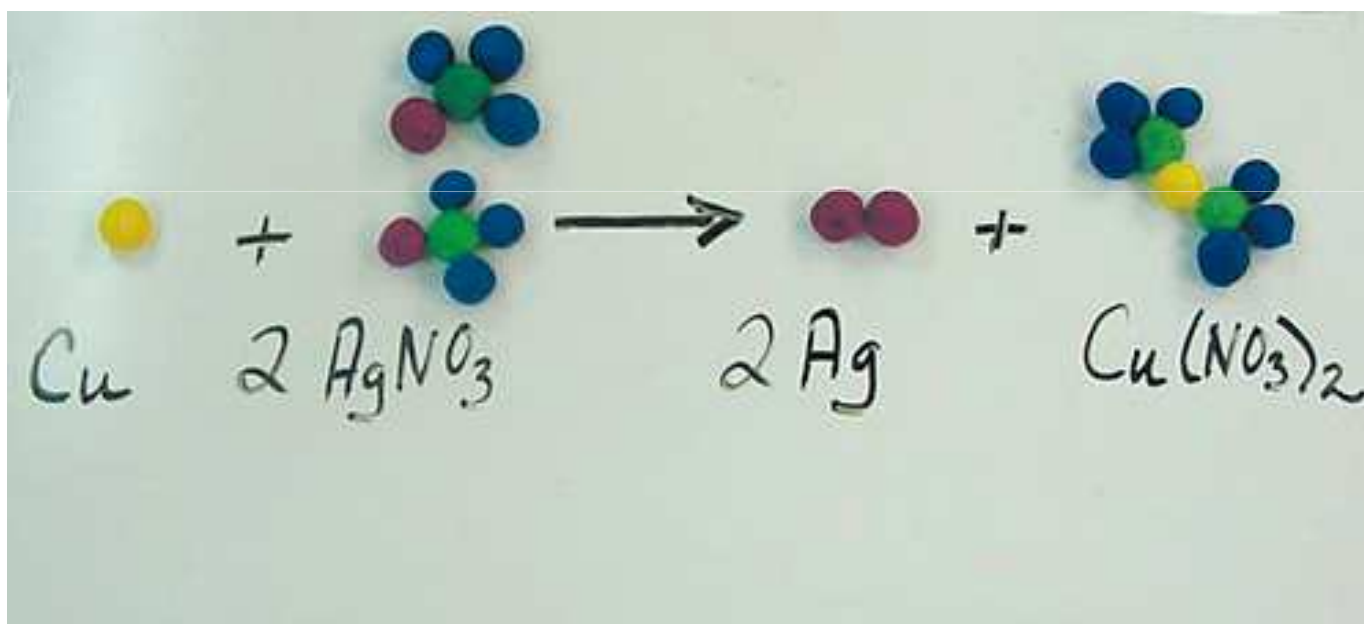
1. Strong (sturdy)
2. There is movement involved (e.g. parts that move; students are moving parts about)
3. Students are able to handle it
4. Large enough to be seen from distance
5. Accurate
6. Cheap and available
7. Colourful and attractive

Make sure visual resource is strong





There is movement in the parts



Students are able to handle it!



# Large enough to be seen from a distance



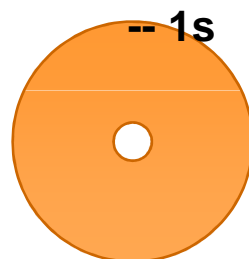
# Accurate

- When possible, use the REAL-THING
- If not, use accurate representation of the ‘real thing’
- May need further research

# Cheap and available

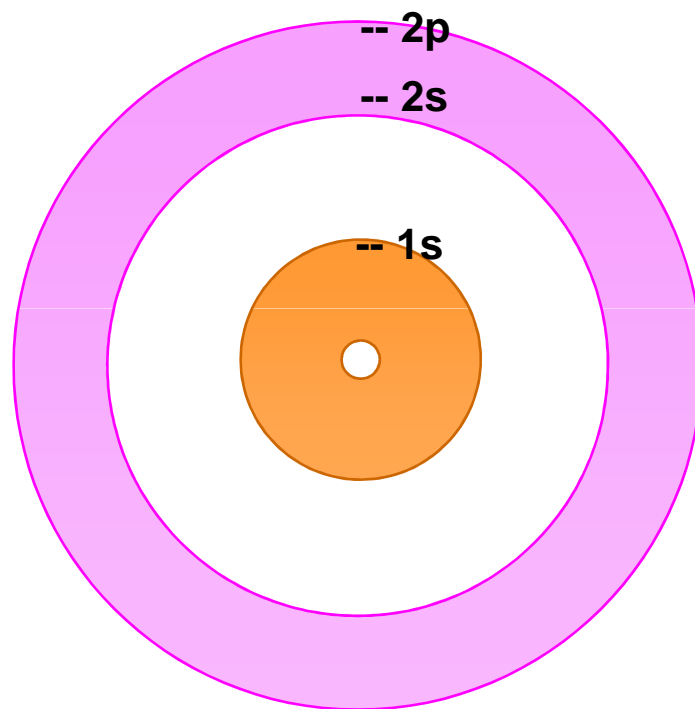


Colourful and  
attractive

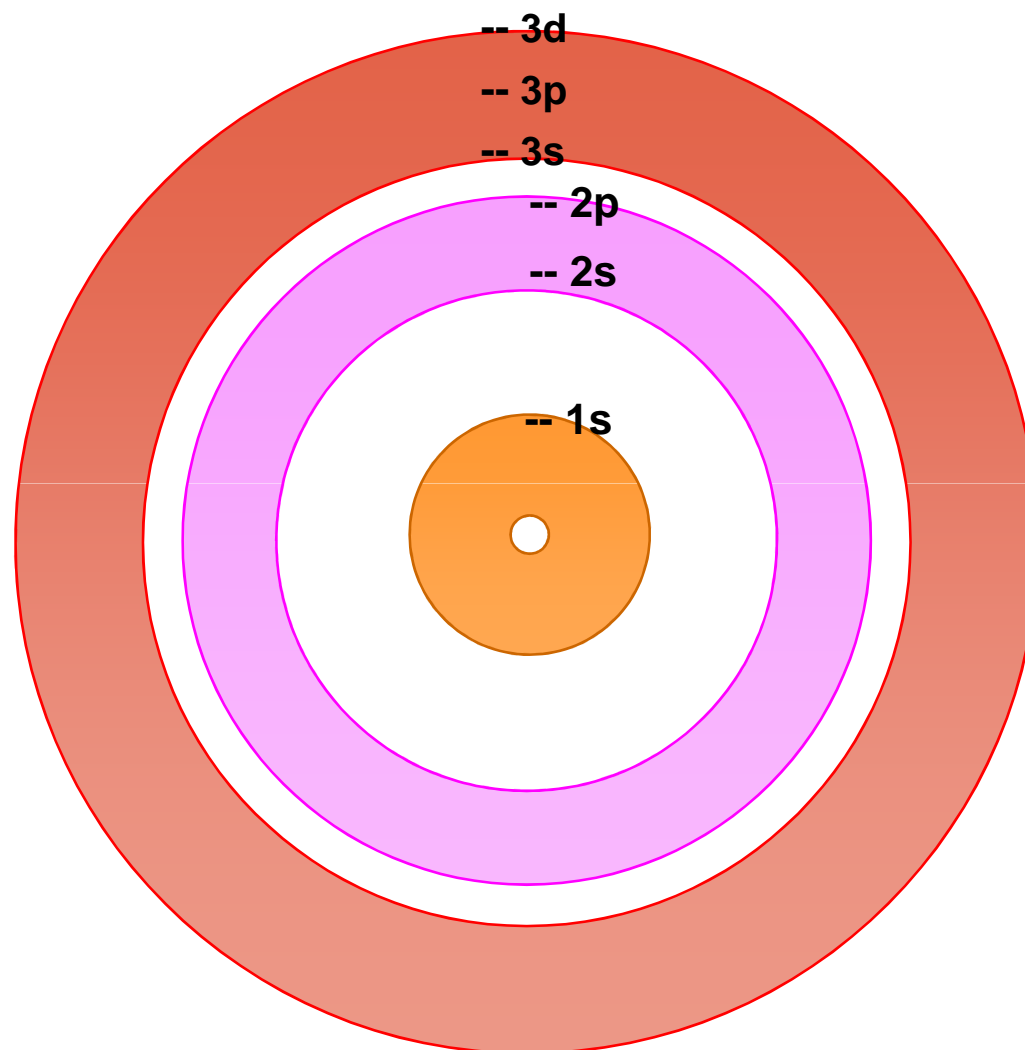




Colourful and  
attractive

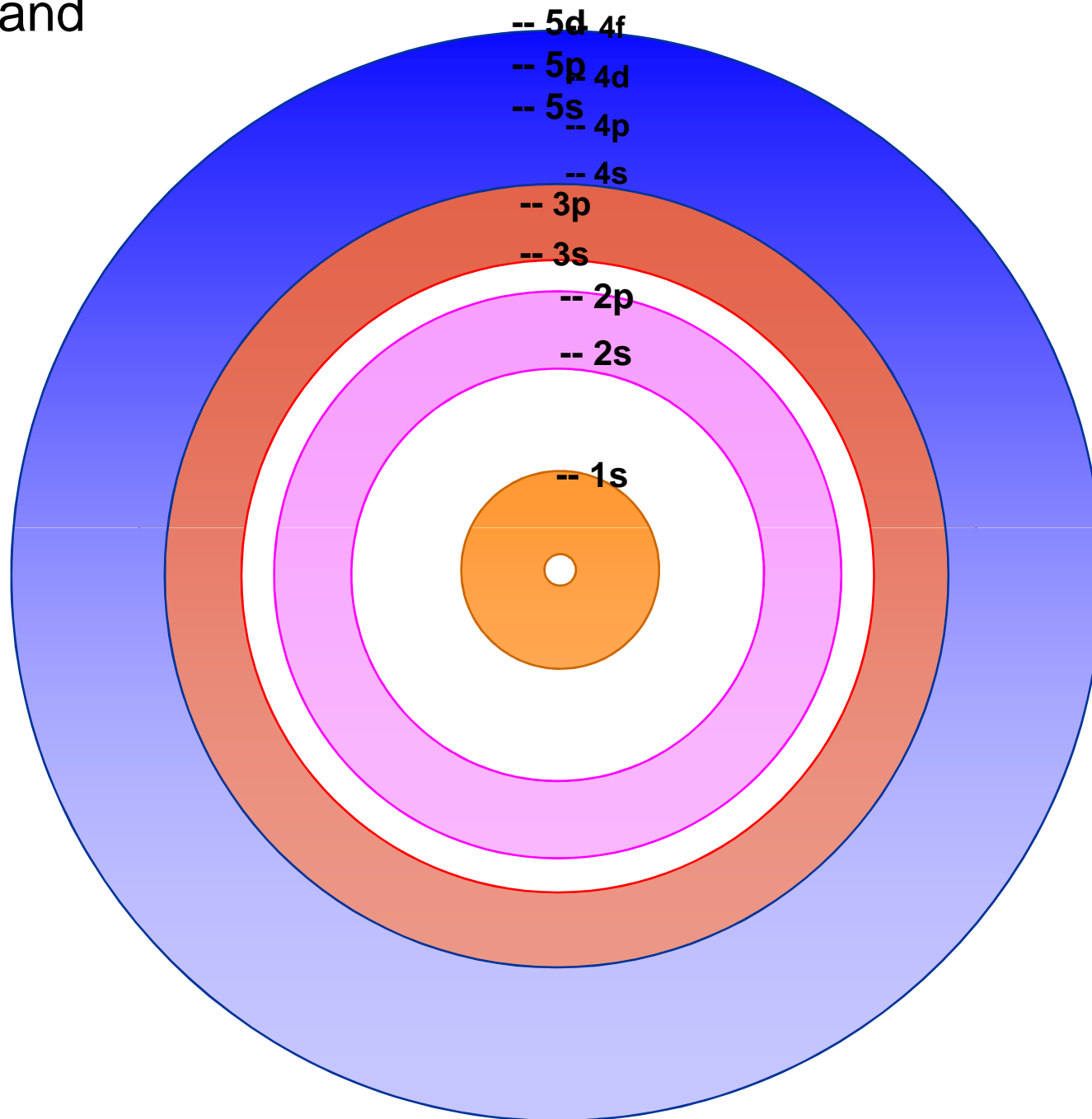


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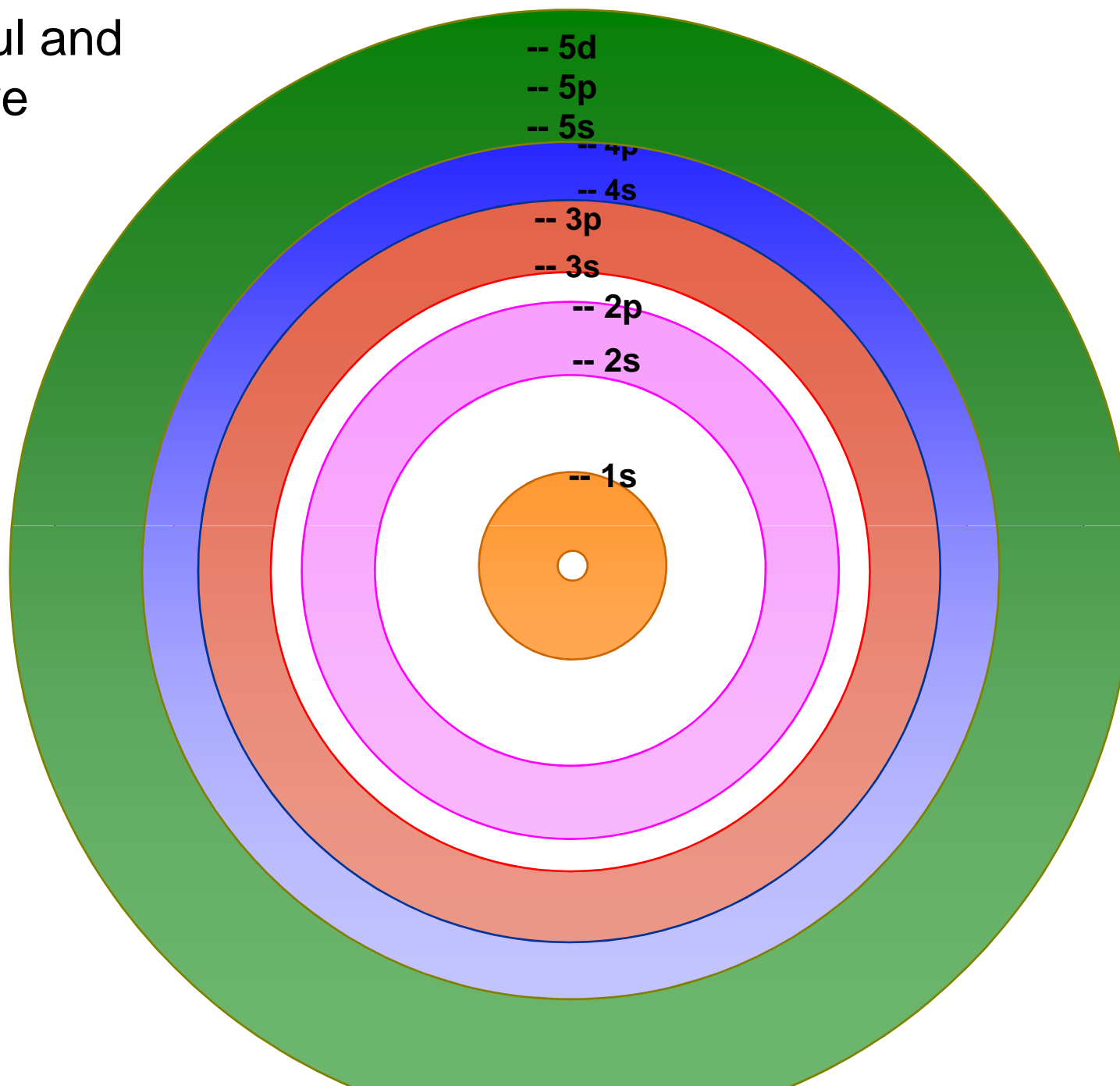




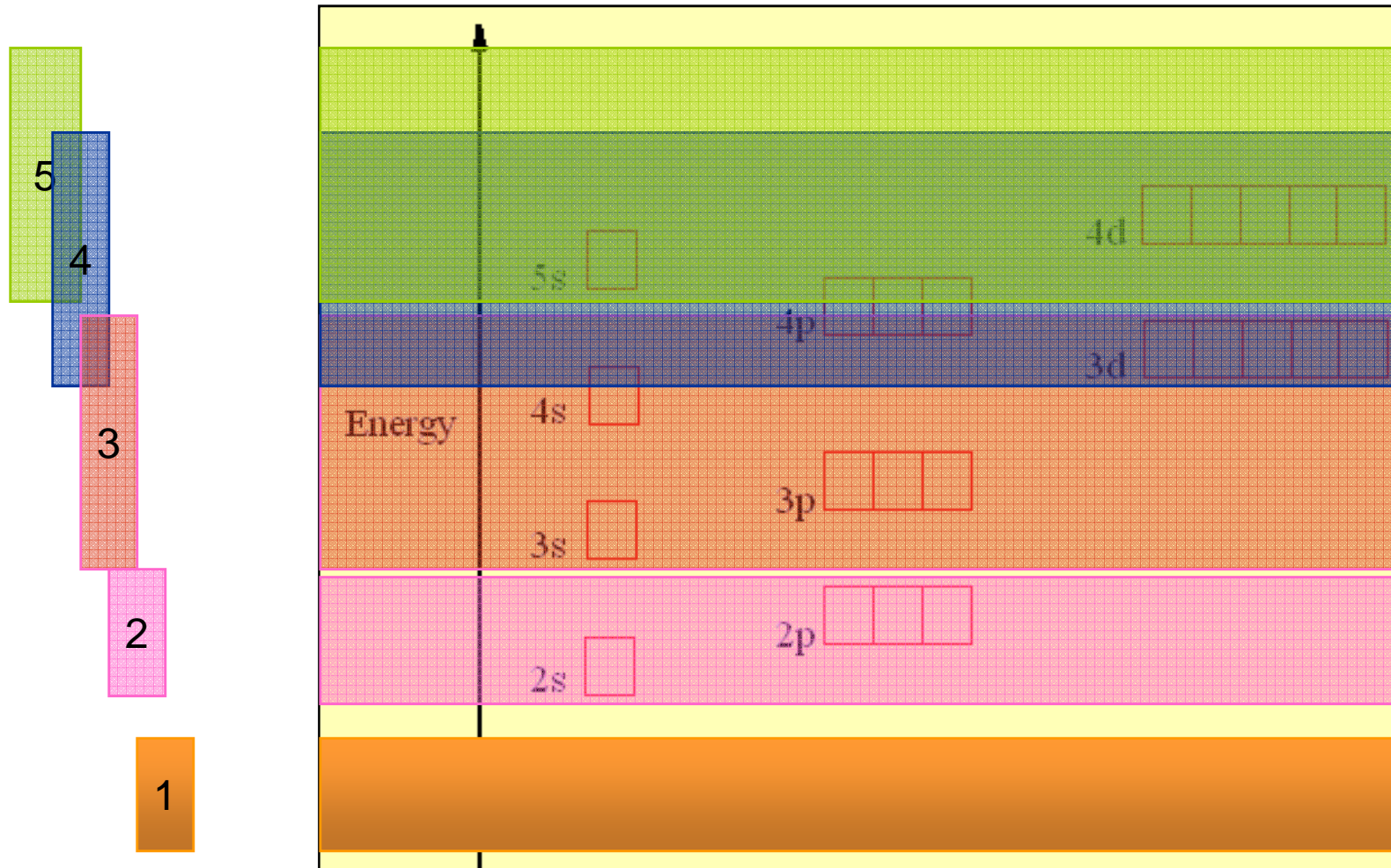
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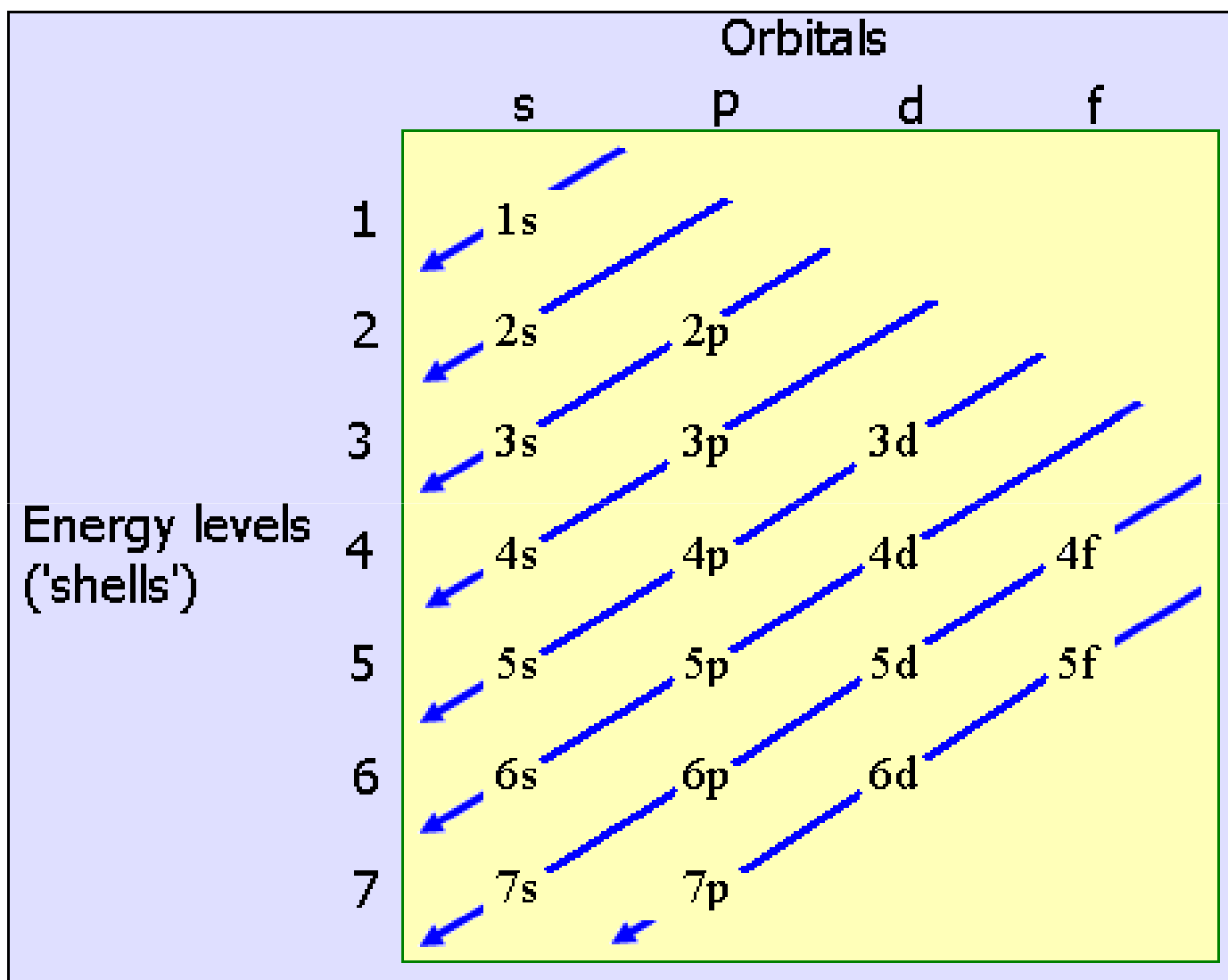


Colourful and  
attractive



# Relative energies of orbitals





# Cheap and available

