

Back to [www.amherst.edu/~nstarr](http://www.amherst.edu/~nstarr)

**Links to Linda Hall 2015 exhibit:** [article](#) KC Star 5-10, [2nd Saturday](#), [Interview](#) & [article](#) KC Star 1-29, [Interview](#) Fox TV,

### **Links to mechanical Puzzles:**

- [SlocumPuzzles.com](http://SlocumPuzzles.com)
- [Slocum Puzzle Collection](#) - Lilly Library, University of Indiana
- John Rausch's [Puzzle World](#) - comprehensive info about mechanical puzzles
- [Stewart Coffin](#)
- [The Puzzling World of Polyhedral Dissections](#) by Stewart Coffin – online version
- [Association of Game & Puzzle Collectors](#)
- [Brochure](#) - *The Art of the Puzzle: Astounding and Confounding* has a brief description of different genres.
- Links to [Wood Puzzles](#)
- [Gathering 4 Gardner](#) - honors Martin Gardner's interest in math, puzzles, and magic

### **Mechanical Puzzle Classification** by Jerry Slocum

Mechanical Puzzle Types (Example name is bold)

1. Put -Together Puzzles-Putting the object together is the puzzle.
  1. 2 Dimensional assembly puzzles ( **Tangrams**, Anchor, T, jigsaw,etc.)
  2. 3 Dimensional assembly puzzles -Non-Interlocking (Soma,etc.)
  3. Miscellaneous put-together-(Instant Insanity, puzzle rings, etc.)
  4. Matchstick puzzles
2. Take -Apart Puzzles-Taking the object apart or open is the puzzle.
  1. Trick or secret opening puzzles -(**Puzzle boxes**,...)
  2. Secret compartment puzzles (Slopes, coins, ...)
  3. Trick locks & keys
  4. Trick matchboxes (matchsafes )
  5. Trick knives
3. Interlocking Solid Puzzles-Disassembly & assembly to solve puzzle.
  1. Figural (Animals, objects, etc.)
  2. Geometric objects (Cube, etc. )
  3. 3-D jigsaw puzzles
  4. **Burr puzzles**
  5. Keychain puzzles
  6. Miscellaneous interlocking solid puzzles
4. Disentanglement Puzzles-Disentanglement & entanglement to solve puzzle.
  1. Cast Iron & sheet metal puzzles
  2. Wire puzzles (**Chinese Rings**, etc.)
  3. String puzzles ( Non-rigid disentanglement )
  4. Miscellaneous disentanglement puzzles
5. Sequential Movement Puzzles-Moving parts of object to a goal is the puzzle.
  1. Solitaire puzzles (Remove pegs, counters, etc. by jumping )
  2. Counter puzzles (Rearrange counters, pegs, etc. by jumping )
  3. **Sliding piece puzzles** (2D & 3D )
  4. Rotating piece puzzles (3D-Rubik's cube
  5. Maze & route puzzles, ,etc. )
  6. Miscellaneous sequential movement puzzles (Tower of Hanoi, etc.)
  7. Mazes and Labyrinths for People
6. Dexterity Puzzles-Manual dexterity is primary to solve puzzle .
  1. Throw & catch (Cup & ball, etc. )
  2. **Rolling ball puzzles**
  3. Maze dexterity puzzles
  4. Miscellaneous dexterity puzzles
7. Puzzle Vessels – Drinking without spilling, or filling a vessel is the puzzle.  
(**Puzzle Jugs**, Bottom fill wine & tea pots, Pitchers, etc. )
8. Vanish Puzzles – The puzzle is to explain a vanished or changed image.  
(**Loyd's Get Off the Earth**, etc.)
9. Folding Puzzles – The puzzle is to fold a paper or hinged object, to form a specified pattern. (2D & 3D)  
(**Fifth Pig Puzzle**, etc.)
10. Impossible Puzzles – The puzzle is to explain how an object was made or why it behaves in a seemingly impossible way. (**Arrow thru bottle**, celt, etc.)