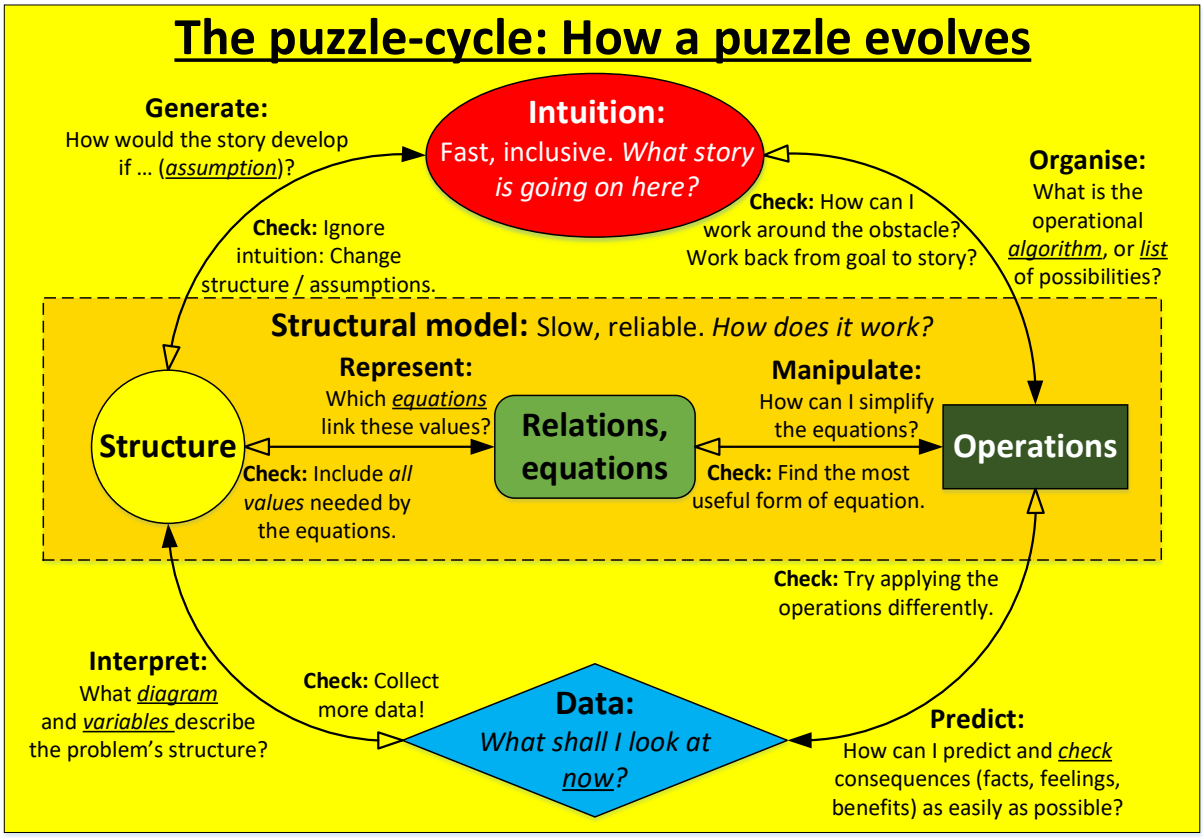
The puzzle-cycle: How a puzzle evolves
Generate:
How would the story develop if … (assumption)?
Intuition:
Fast, inclusive. What story is going on here?
Organise:
What is the operational algorithm, or list of possibilities?
Check: Ignore intuition: Change structure / assumptions.
Check: How can I work around the obstacle? Work back from goal to story?
Structural model: Slow, reliable. How does it work?
Represent:
Which equations link these values?
Manipulate:
How can I simplify the equations?
Structure
Relations, equations
Operations
Check: Include all values needed by the equations.
Check: Find the most useful form of equation.
Check: Try applying the operations differently.
Interpret:
What diagram and variables describe the problem's structure?
Check: Collect more data!
Data:
What shall I look at now?
Predict:
How can I predict and check consequences (facts, feelings, benefits) as easily as possible?