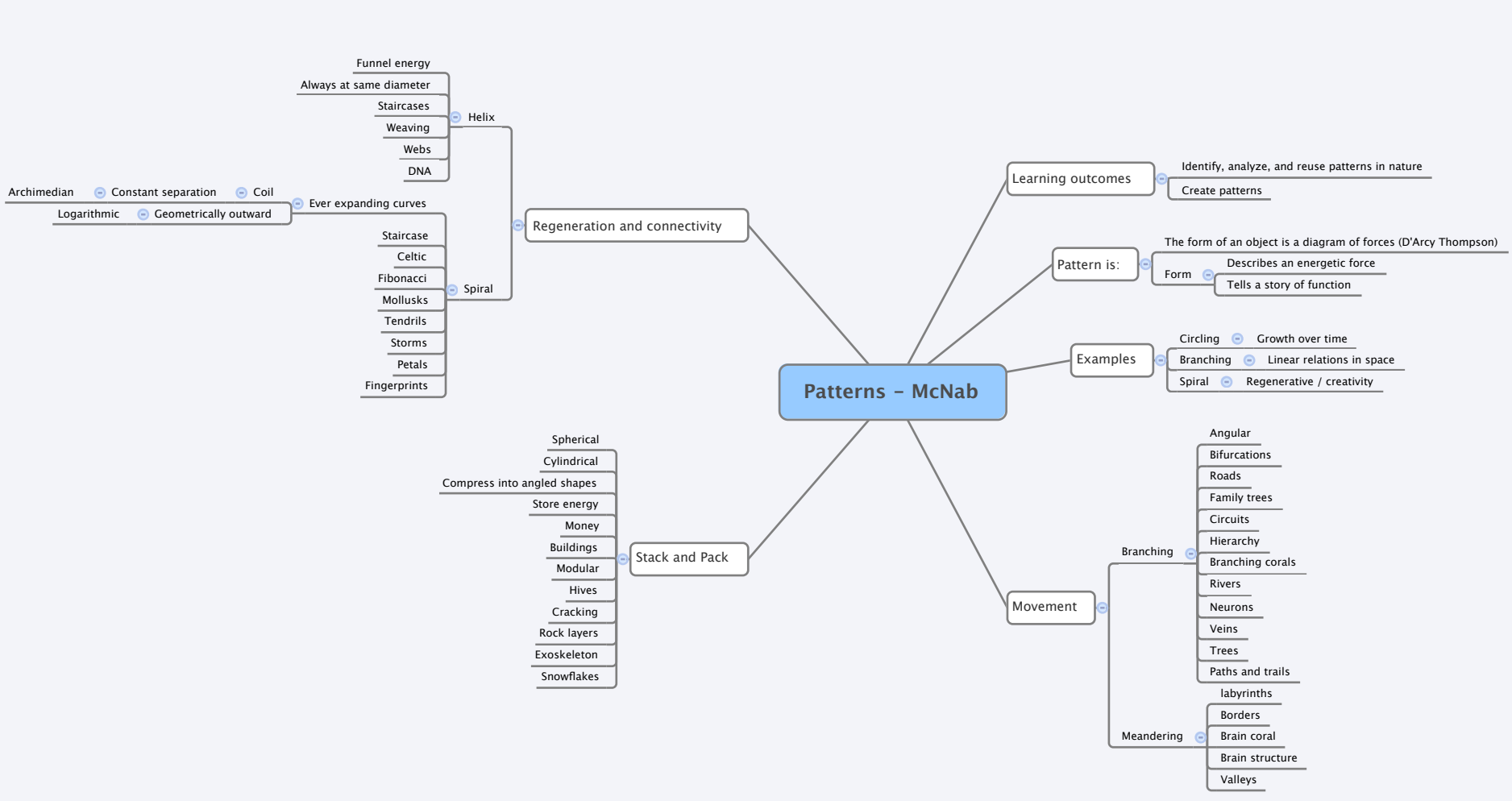
Patterns - McNab
Learning outcomes
Identify, analyze, and reuse patterns in nature
Create patterns
Pattern is:
The form of an object is a diagram of forces (D'Arcy Thompson)
Form
Describes an energetic force
Tells a story of function
Examples
Circling
Growth over time
Branching
Linear relations in space
Spiral
Regenerative / creativity
Movement
Branching
Angular
Bifurcations
Roads
Family trees
Circuits
Hierarchy
Branching corals
Rivers
Neurons
Veins
Trees
Paths and trails
Meandering
labyrinths
Borders
Brain coral
Brain structure
Valleys
Stack and Pack
Spherical
Cylindrical
Compress into angled shapes
Store energy
Money
Buildings
Modular
Hives
Cracking
Rock layers
Exoskeleton
Snowflakes
Regeneration and connectivity
Helix
Funnel energy
Always at same diameter
Staircases
Weaving
Webs
DNA
Spiral
Ever expanding curves
Archimedian
Constant separation
Coil
Logarithmic
Geometrically outward
Staircase
Celtic
Fibonacci
Mollusks
Tendrils
Storms
Petals
Fingerprints