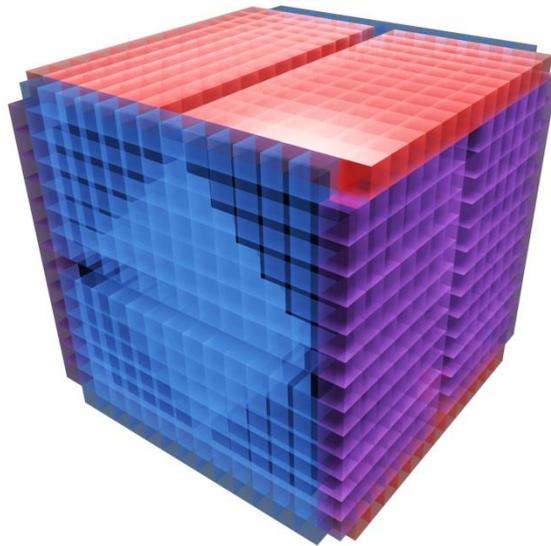




The (Printable) Pattern Book

The 2021 Pattern Reference Book



The (Printable) Pattern Book is a selection of material from
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Preface

The progress made by science over the past few hundred years is remarkable. General Relativity and the Quantum Theory, with the Standard Model as its most important outcome, are notable examples of its success.

A measure of desperation is, however, becoming apparent in the presentations and conversations of the scientific fraternity. Phrases that are now commonly heard are similar to: the *crises we have*; *a new paradigm needed*; and *radical new ideas needed*.

The reason for this state of affairs is the general realization that a more fundamental theory is required to harmonise the various currently incompatible physics theories into one coherent theoretical framework or fundamental law.

Terms that are used for the new framework are varied: a grand unification theory; the theory of everything; a deeper theory; and a final theory.

The Pattern book presents a remarkable discovery, called the Pattern, that has the potential to be a fundamental theory.

The idea that patterns could be behind the universe is age-old, and it is mostly attributed to Plato. His idea was essentially that universal 'forms' are behind the 'shadows' of reality.

The Pattern that is described in this book is a discovery rather than a concept that had been developed. The Pattern is an innate property of a cuboctahedron-shaped cluster of spheres.

The Pattern law, in the form of the Pattern cube (which is its direct geometric equivalent), matches different types of natural phenomena. Some of these phenomena are energy, gravity and black holes, but the Pattern law has the potential to describe all types of natural phenomena eventually.

The Pattern law can also unify the heretofore incompatible theories of general relativity and the quantum.

The simplicity of the Pattern mathematics, models and matches is its strength. It refutes the general idea that only complex mathematics and weird concepts, like the multiverse, can discover and describe the ultimate truth of existence.

The most amazing thing about the Pattern, however, is that it also matches different types of phenomena that are described in the Bible. These include structures like the tabernacle, the temple and the New City as well as social structures like families, tribes and nations.

The Pattern has the potential to unify not only diverse theories in science, but also, ultimately, to unify our understanding of Nature and Scripture.

SP Viljoen

*Pretoria, South Africa
July 2021*

Introduction

The content of *The Pattern Book* are a selection from material that has been published on *thepatternbook.com* website over a period of more than ten years.

The three original 'books' (*The Pattern of All Things*, *Peter in the Patternland* and *Peter in the Pattern City*) were first published in 2010. The Pattern Pieces (a collection of forty pages) and now Folder 1 were added two years later.

During the next eleven years, until 2021, one book and seven folders were added. Four maps were also added, although Map 1 (The Pattern Map) was initially part of *The Pattern of All Things*.

The selection for this printable version of *thepatternbook.com* was made to reflect the development of the Pattern elements and their representation by means of geometric drawings and pictographics.

The two latest documents in the book are Folder 18, *The Pattern Cube*, and Map 4 *The Creation Map*. Folder 18 was also published on its own website *thepatterncube.com*.

The Pattern Cube describes the breakthrough discovery of the Pattern conservation law and its direct geometric equivalent, the Pattern cube.

The Creation Map shows the Pattern cube as a common pattern for both scriptural and natural phenomena.

The three main sections of this book are placed in an inverted time order. Although the maps were last, they are indexed first. The folders are second, although the first three books were published earlier. The reason for this arrangement is that the later documents reflect the more up-to-date Pattern cube descriptions that employ enhanced notation, e.g. pictographics.

The advent of the Pattern pictographics has enabled a simple rendition of the different cube components and a modular approach to their mapping with matching phenomena.

The reader may notice that certain terms used in the early documents were dropped or changed in later documents, for example, the term 'conics' and 'cornics' were not used in later documents. Another example is the term 'Standard' that replaced the term 'Symmetric' in the name of the Pattern periodic table.

Drawings of the Pattern cube, for example, also became more functional in the later documents owing to the author's reliance on his own skills rather than receiving help from a graphic designer for every document.

The writing style of the 'Pieces' mirrors the discrete nature of the Pattern cube and lends itself to a structured type of composition, almost like a portfolio of paintings by an artist.

The (Printable) Pattern Book should be a useful reference for any student of the Pattern. The different documents form a fairly integrated whole with many links and references that point to other parts of the book.

Introducing the Maps

Map 1 The Pattern Map

The Pattern map shows the spread-out plates of the red pyramid pair of the Pattern cube. The details of the Pattern equation terms are shown on the matching cube parts to illustrate the mathematic-geometric equivalence of the Pattern cube. Substructures of the cube are highlighted, and the identification of the individual small cubes (cells) by means of the Pattern State Identity system is shown.

Map 2 The Standard Model Map

The Standard Model Map unifies the Standard Model and the periodic table.

The three pyramid pairs of which the Pattern cube consists represent the three different periodic tables, one for electrons, one for muons and one for taus.

The map shows the matching of the elementary particles of the Standard Model, such as electrons and quarks, with the individual Pattern cube parts.

Map 3 The Unified Physics Map

The Unified Physics Map shows the unification of relativity and the quantum by the step-wise combination of the three main types of component cubes.

Special relativity relates to the nonlinear aa and bb components of the Pattern cube, while the quantum aspects correspond to the complete (linear) cube with its aa , bb and ab/ba component parts. Imaginary aa terms of the Pattern equation yield the crucial negative sign for time in the special relativity equation.

The Gravity cube instance of the generic Pattern cube represents constant acceleration as a conserved quantity. The complete Pattern cube, therefore, represents quantum gravity.

Map 4 The Creation Map

The Creation Map represents the unification of Nature and Scripture. The Pattern cube models are shown to be in a kind of logical land. The physical universe develops, e.g. manifests, grows, and moves, according to the Pattern cube models.

The Creation map shows the Pattern cube as the (single) Pattern of both Scripture and Nature. The Eden cube and the City cube are two scriptural manifestations of the Pattern cube, which is the centre of the map, and the Creation cube (Vacuum cube) and the Cosmos cube are two natural manifestations of the Pattern cube.

The four foldable box maps that are provided add an extra dimension to the map.

The Creation Map Guide

The Creation Map Guide that accompanies the map explains the layout of the logical land of the Pattern. Detail about all the points to be visited is provided. The Guide is a comprehensive document aimed at justifying the claim that the map represents a unified natural and scriptural view.

Introducing the Folders

Folder 1 The Pattern Basics

The forty Pattern pieces in Folder 1 cover a broad range of subjects relevant to the Pattern idea. Folder 1 briefly outlines the basic aspects of the Pattern elements from a scientific perspective as well as from a biblical perspective. Some other pieces highlight the Pattern concept from a more philosophical perspective.

Folder 2 The Pattern Energy

The wave nature of the Pattern cube is explained, amongst other things, by the pieces in this folder. The matching with wavefunctions and node cones (representing standing waves) is shown. The discreteness of the Pattern energy is highlighted and related to the gravitational characteristic of the Pattern cube.

Folder 3 The Pattern Numbers

The Pattern number system contains geometric representations of some Pattern numbers. The Pattern number c is defined by $a + b = c$, where c is a constant. Pattern number 6 represents the Pattern information. It is similar to, but also includes, the Shannon information which is based on Pattern number 1.

The uniqueness of the cubed Pattern number 6 pair is highlighted by its ability to yield the (perfect) Pattern cube.

Folder 4 The Geometric Standard Model

Folder 4 describes the Pattern cube as a matching geometric representation of (all) the elementary particles of the Standard Model, including the Higgs boson.

(Note that Map 4 *The Standard Model Map* graphically explains the progression from the Standard Model to the Standard cube.)

Folder 5 The Pattern Cell

The matching of the Pattern cube's parts with the different living cell components and structures is explained. The manner in which the eight diagonal chains of the cube resemble the sixty-four codons of the genetic code is highlighted as is the chromosome-like shape of the Pattern cube diagonals.

The Encoded Earth

The Encoded Earth uses the Pattern cell as a basis for the idea that the current Earth is like a seed that was caused by the collapse of the original creation. Folders 3, 4 and 5 are combined for the comparison with the seed idea.

Folder 6 The Cosmos Code

The Cosmos code illustrates the idea of a universal Pattern code. The Light-code and Life-code perspectives on the Pattern cube are described in terms of energy (the different levels) and information (the different cones).

Folder 16 The Pattern Pictobricks

The development of a symbolic notation that could be used for the representation of the different types of Pattern parts resulted in a set of standard icons.

Individual pictobricks can be used in combination to reflect modules, triplets and quads, as well as complete (3D) cubes consisting of three orthogonal quads of different colours: red; purple; and blue.

Folder 18 The Pattern Cube

Folder 18, *The Pattern Cube*, is also published as an article on a website: thepatterncube.com.

The article consists of eighteen Pattern pieces and represents the climax of the Pattern discoveries from a natural perspective.

The article describes the Pattern theorem, the Pattern law and the generic Pattern cube with some of its specific Pattern cubes, such as the Vacuum cube, the Atom cube, the Energy cube, the Gravity cube and the Code cube.

It also posits that the Anti-cube could be a model of a black hole.

The pictographic notation that was developed for the Pattern cube structures has made it possible to represent and compare the different parts of the Pattern cube in a modular and symbolic manner.

The notation has also enabled the classification of the specific Pattern cubes (models) that were derived from the generic Pattern cube. It has made it simple to map the parts of the cubes to the natural phenomena.

Based on the specific Pattern cubes, some observations that could have major implications for science are the three types of gravity (antigravity, gravity and chain gravity), two types of time (imaginary time and real time), and the development of different types of natural phenomena according to the law of the Pattern.

The Pattern conservation law could be explained by the Pattern cube's being a mould according to which the different types of physical phenomena could develop, e.g. manifest, grow and move.

The discovery of the Pattern law could well be the end of the search for a fundamental law of the universe. The Pattern law is essentially an information law which is similar to, but more general than, the energy conservation law that applies to physical phenomena.

The full implications of the Pattern law will take a long time to become clear but the Pattern law has the potential to cause a paradigm shift in all of science.

Introducing the Books

The Pattern of All Things – The Science

The Pattern of All Things was the first document to explain the origin, the mathematics and the geometrical manifestations of the Pattern. Its three sections explain the models, matches and maps of the Pattern. The Pattern map illustrates the fine detail of the Pattern cube and its context.

The four matches are the Atom match, the Body match, the Cosmos match and the City match. Each match comes with a map. The City match refers to the biblical interpretation of the Pattern cube as the New City.

Peter in the Patternland – The Story

Peter in the Patternland is a story meant to illustrate the scientific aspects of the Pattern. The spread-out plates of the symmetric periodic table match is shown as the Patternland with the core of the cube as the centre of the land. Peter's journey in the land takes him among the chemical elements and also to the codons of the genetic code. His disPlay, a kind of GPS, guides him on his journey through the geometric land.

The highlight of his visit is his encounter with Wisdom in the middle of the land. In the Panorama animation he is treated to a magnificent view of the three pyramid pairs being assembled into a cube and then being spread-out again.

Peter in the Pattern City – The Sequel

During Peter's second visit to the Patternland he is surprised to find the Pattern city where the Patternland used to be.

The Pattern city is an enormous cube that he traverses, this time with Wisdom as his guide. The city map illustrates some of the places in the New City as described in Revelation 21 and 22.

The Creation's Pattern

The Creation's Pattern is a later document (2017) that introduces duonity (the two-oneness or superposition) of things. A Möbius band is used as a kind of model to explain the higher-dimensionality of the Pattern.

The higher-dimensionality of the Pattern became a crucial element in the documents that followed after *The Creation's Pattern*, i.e. folders and maps.

The book also contains four pages with more philosophical discussions of the Pattern idea.

Brief History

At the end of 1997, I had assembled a cluster of spheres by gluing twelve marbles to a thirteenth one to form a cuboctahedron-shaped model. I used the model to explain company processes to engineers reporting to me. (At the time I was working as chief engineer for Vodacom, a cell phone network provider in South Africa.)

One day in December 1997, my daughter picked up the model that I had taken home to have a closer look at it, and, when she put it back on the table where it had stood before, she accidentally let it stand on four marbles; it had been meant to stand on three marbles. I was just about to rectify the 'mistake' when I noticed that the cluster could now fit inside a cube. (It fitted inside a sphere when standing on three marbles.)

I somehow realised that this property of the cluster was special because something that fits inside both a sphere and a cube must be 4D in some way.

I began to study the cluster of spheres from all perspectives, and I eventually found that sets of sphere configurations manifested themselves when I sliced them at different angles. I noticed that the configurations in the centre column resembled the typical s, p, d, f, g, h and i orbitals of an atom. This observation excited me. I thought that the innate code of the cluster must be something very special to have this property.

I subsequently realised that the numbers of spheres in the different configuration sets could be generalized as a pair of simple symmetric equations, i.e. $a + b = c$ & $c = b + a$, with $a = 6,5,4,3,2,1,0$ and $b = 0,1,2,3,4,5,6$. (It was a case of geometry that yielded mathematics.)

After many attempts to make mathematics yield geometry, I succeeded in building a cube with small cubes (like Lego bricks) that was the geometric equivalent of the cubed equation pair. (Unlike the Pythagoras equation the Pattern equation can be cubed and that is the main reason why the cube is possible.)

I called the cube 'The Pattern cube' and began to study its parts and properties. After much trial and error, I found that the different Pattern cube parts could be shown to match natural phenomena, such as the parts of atoms (elementary particles) exemplified by the Standard Model. I also discovered that the eight cube diagonals match the 64 codons of the genetic code.

Another breakthrough came when I found that the cells in each of the three pyramid pairs of which the Pattern cube consists could be identified by an address system formed by the quantum numbers. One pyramid pair, therefore, represents a symmetric version of the periodic table of the chemical elements.

These breakthroughs convinced me that the Pattern cube was special, and I worked tirelessly for many years to develop a notation that would enable me to describe the Pattern in a scientific manner. (I was fortunate to have been in a position to study the Pattern for the past 17 years on a full-time basis.)

At the beginning of this year, I re-visited Noether's theorem, and I then realised that the Pattern sum is a conserved quantity (owing to the linear inverse symmetry of the a, b pair of quantities) and that the Pattern cube must then also be a conserved quantity, or rather, object.

The Pattern conservation law could be explained by the Pattern cube's being a mould according to which the different types of physical phenomena could develop, e.g. manifest, grow and move.

By substituting physical pairs of quantities for the a and b values of the (generic) Pattern cube equation pair it is possible to have specific Pattern cube representations (models) for different types of natural phenomena, such as energy, spacetime, gravity, atoms and even black holes (the anti-cube)!

I subsequently published an article with the title, *The Pattern Cube*, on a dedicated website, thepatterncube.com

The article shows that the Pattern idea represents one fundamental theorem, one fundamental law with one pair of quantities to be what John Archibald Wheeler predicted when he said:

...we will grasp the central idea of it all as so simple, so beautiful, so compelling that we will all say each to the other, 'Oh, how could it have been otherwise! How could we all have been so blind for so long!'

All of the above relates mostly to the Nature perspective on the Pattern. The Scripture perspective, however, developed in parallel with the Nature perspective.

The Pattern verse (Ezekiel 43:10) caught my attention in the early stages. The specific reference to the pattern's measurability (*...and let them measure the pattern.*) was the leitmotif throughout my discovery process.

Another observation that kept me working was the quite obvious matching of the Pattern cube features with the features of the New City as described in Revelation 21 and 22. It formed the basis of the story, *Peter in the Pattern City*.

The climax of my Pattern journey through the Bible came with the realisation that Genesis 1 describes twelve timed elements while Genesis 2 describes twelve spaced elements. These twenty-four elements match the duonity configuration (the superposition) of the Eden cube perfectly. The twelve sons of Jacob and the stones on the garments of the High Priest exhibit the same Eden Pattern.

The Scripture perspective as well as the Nature perspective is illustrated by *The Creation Map*, which is yet another document that I finished this year and which is available on thepatternbook.com website.

SP Viljoen

July 2021

The Pattern in a Nutshell

The Pattern idea could be compared, by analogy, to a single instrument that can shine light, play music, utter words, compile messages, but that can also make tangible things.

The Pattern conservation law states that natural phenomena, like spacetime and gravity, develop, e.g. manifest, grow and move, according to the Pattern cube. The Pattern cube is a conserved object (a kind of mould) that is equivalent to the invariant Pattern sum.

The Pattern is represented in its basic mathematical form by a symmetric Pattern equation pair, $a + b = c$ & $c = b + a$, with inverse symmetric integer values for a and b , that yield a constant sum c . The integer Pattern values are $a = 6,5,4,3,2,1,0$ and $b = 0,1,2,3,4,5,6$.

(The Pattern equation pair is the generalization of the sets of configurations that were obtained by slicing a cluster at different angles. The cuboctahedron-shaped cluster consists of twelve spheres glued to a thirteenth one in the centre.)

The Pattern values could be inserted in the equation pair and then small cubes, in number equal to the numbers of the resulting terms of the equation pair, could be used to construct geometric objects.

The Pattern cube is an abstract geometric object based on the numbers of the terms of the cubed Pattern equation pair.

The Pattern cube is possible owing to the fact that the Pattern equation could be cubed in contrast to the Pythagoras equation that cannot be cubed.

The invariance of the Pattern sum c implies that the Pattern sum is a conserved quantity and that the Pattern cube is, therefore, a conserved object. This invariance yields the Pattern conservation law which is similar to the law of the conservation of energy.

The Pattern conservation law implies that the different types of natural phenomena are manifestations of a single underlying pattern.

“The central idea of creation is simple; there is a Pattern behind it all.”

SP Viljoen

Specific Pattern Cubes

The Pattern cube could be viewed as a generic model that is defined by a generic pair of quantities a and b . Specific instances of the Pattern cube are obtained by choosing appropriate pairs of a, b quantities. For example, if a is defined as the potential energy and b as the kinetic energy then the resulting cube would be the Energy cube that represents energy as a conserved quantity.

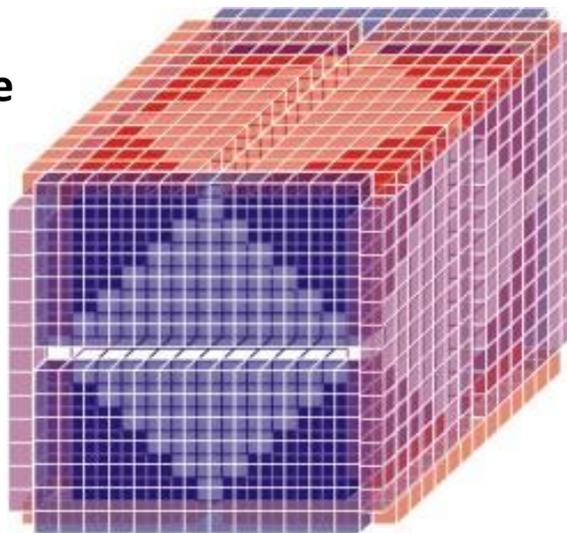
Other pairs of quantities yield more specific cube models for more types of natural phenomena. The different cubes are classified by their key properties, such as linearity and duonity.

The duonity or disduonity is a special property of some Pattern cubes. It is an indication of the higher-dimensionality of the cube.

Pattern cubes that have been described so far are: the Vacuum cube; the Standard cube; the Atom cube; the Energy cube; the Spacetime cube; the Code cube; and the Anti-cube which represents a black hole.

The Pattern law is, however, also applicable to biblical phenomena. Examples of specific cubes for biblical phenomena are the Eden cube and the City cube.

The Pattern Cube



The Pattern law was described for the first time in an article, *The Pattern Cube*, which was published on a dedicated website, thepatterncube.com on 31 March 2021.

The applicability of the Pattern cube to scriptural phenomena, as well as natural phenomena, is illustrated on *The Creation Map* that was published on thepatternbook.com website on 15 May 2021.