Index

Note that these are the page numbers in the printed book. Sadly the author hasn't the time at present to correct the index page numbers for these online files. The index is included here as a guide to the topics covered. The online version has c. 25% more pages, so at least 20% must be added to the page numbers given here if you search for the relevant pages. For example 'acid rain' is mentioned on pages 123 and 129 in these files (101 + 22x%,105 + 23%). This lack will be rectified in the second online edition.

References to figures or tables are in bold. References to chapter end-notes are indicated by the letter 'n' (e.g. 49n2 is page 49, end-note 2).

Α

acid rain AIDS, cause Alexander, R. McNeill (zoologist) Aluminium creation roles ammonia anhydrobiosis animal rights Anthropic Principle Antibiotics astronomy, creationist literature atheism, consequences for ethics atmosphere	101, 105n23 47 62 96 20, 31,38 101, 105n22 40, 55n134 20, 52n69-70 26, 53n88 17 130 24-5
chemically impossible design atoms/atomic theory Atkins, Peter (chemist) cosmic purposelessness euthanasia atmosphere, chemically impossible Attenborough, David (biologist) universality of science autonomy rational autonomy Ayala, Francisco (geneticist)	100, 99-101 100, 99-102 16, 16 58, 127 59 24 33-4 58 7 1 1, 7, 14, 49n2
В	
bacteria, primary and secondary roles Barrow, John (astronomer) Barrow, Robin (educationalist) no indoctrination in science basalt (rock), creation roles	18 58 2 98

Bath (town), Roman Baths big bang (cosmology) biochemistry, creationist literature biological sciences biosphere, spatially insignificant body plans (Baupläne) vertebrate body plan and evolution Bohr, Niels (physicist) bone, a living tissue brain protein, turnover brine shrimps, survival without oxygen Burnett, David (anthropologist) on worldviews	98 26, 52n86 131 40-2 42 73, 75, 86n96 77, 77-8 92 97 40 40, 55n135 4
С	
Cain, Arthur (zoologist) Calcium	74, 76, 77, 78, 79 95-9 38, 95-8 33, 96 34 31, 38 33 100, 100-1 101, 105n26 43-7 46, 80 102-4 47-8 111 90 55n132
dominant classes on Earth interstellar space chemical warfare see World War, First chlorine	32-3 32
chemical warfare creation roles Christian Schools' Trust	91-2 31
Information CST Science Curriculum Team chronological snobbery churches and secularism Clean Air Acts Cohen, Jack (biologist) Communities	135-6 135 (C.S. Lewis) 50n25 57-8 20 85n73
organisational arrangements	11-12

secular liberalism undermines virtual (electronic media)	11-13, 57-8 50n15
complexity theory conceptual framework (CF)	55n132 3
Darwinism	68-70
Constantine, Learie (cricketer) continuity, principle (or law)	89 60-1
convergence (evolution)	71
correlation and cause creation	44-5
definition	63, 67 67, 83n31
creation, Biblical teaching	·
affect of secularism creation, richness	57-8
diverse aspects and roles	18, 18-19 , 21-3
Creation, Fall, Redemption (Bible)	
explained science teaching	5 17-21
creationist organisations	127-8
Crick, Francis (biophysicist)	60
Crimean War (1853-6) culture, Christian	94n7
hardly exists today	58
secular liberalism undermines	11-13
culture, Western	
idols of science, technology and economics	8, 8
idols of science, technology and economics curriculum development	·
idols of science, technology and economics	8, 8 1 8-19
idols of science, technology and economics curriculum development	·
idols of science, technology and economics curriculum development questions to ask D dams and dykes	·
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist)	18-19 29, 53n98, 53n100
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive	18-19 29, 53n98, 53n100 60 73, 85n75
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature	18-19 29, 53n98, 53n100 60 73, 85n75
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies methodological naturalism	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6 126-27
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies methodological naturalism scientific studies theistic evolution Darwinism	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6 126-27 27-33 126
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies methodological naturalism scientific studies theistic evolution Darwinism 1995 year of Darwinian science	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6 126-27 27-33 126
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies methodological naturalism scientific studies theistic evolution Darwinism	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6 126-27 27-33 126
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist)	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6 126-27 27-33 126 7 68 61 58, 127
idols of science, technology and economics curriculum development questions to ask D dams and dykes Darwin, Charles (scientist) continuity, law of evolution progressive homology literature Darwinian revolution, literature historical and philosophical studies methodological naturalism scientific studies theistic evolution Darwinism 1995 year of Darwinian science conceptual framework evolution as purposeless	18-19 29, 53n98, 53n100 60 73, 85n75 72, 73 124 123-33 123-6 126-27 27-33 126 7 68 61

Dennett, Daniel (philosopher) Descartes, René (philosopher) design (optimal design) development (biology) evolution laws? role changes structuralism theory, none exists Dewar, Douglas (ornithologist) DNA, structure and function Dobzhansky, Theodosius (geneticist) creationism blasphemous evolution and rationality homology Drew, Charles (blood bank pioneer) Dunn, L.C. (geneticist)	58 8 76, 79, 86n89, 86n100 41, 77-8, 79-80, 87n105 41-2 18 41 41, 79-80 71 48, 79-80 72 61 72 88-90 61
E	
earths (chemicals)	96, 104n4
Earth atmosphere, chemically impossible chemical reactions, dominant classes of domains, interacting eddies in atmosphere and oceans, roles oceans, chemically impossible planetary goods and services unique features	33-4, 100 , 100-1 32-3 27 ,28-9 37-8 33-4, 100 , 100-1 28 ,28-9 26-7
economics energy and water use, possible to halve idol, modern planetary goods and services, need to cost	29 8 28-9
education (Christian) concerns whole curriculum	14
education (English) traditions	14, 15
education (multicultural) critique Einstein, Albert (physicist) Elias, Hans (anatomist), vertebrate liver Eldredge, Niles (palaeontologist) philosophical commitments in science electric lights very wasteful of energy elements (chemical) embryology see development (biology) energy	12-13 92 78 61-2, 125 29 104n2
amount and kind law of conservation	100 34-5

law of dissipation environment (biology), concept equilibrium, chemical eutrophication evolution (naturalistic)	35 68-9 36-7 92
Bible Defined development (embryology) evidence, historical evolutionism	63 67 41, 77-8, 79-80, 87n105 70-1 66-7
homology argument imperfections, evolution proven by? mutation occurring today? philosophy, status as	70-80 74, 76-7 80-1 81 66-7
physical sciences principles/laws (homology argument) processes universal in time and space progressive purposeless, unplanned rationality	39 , 40 , 38-40 73-9 67, 85n57 73, 85n75 59, 61, 83n18 60-1
religion, status as teaching of, in schools theological arguments, use of by secularists time, enough for evolution? evolution (theistic)	61-3 82n1 65-6, 74, 76 81
critique defined literature explanation (scientific)	63, 83n33 68 126
prediction not necessary recognition and evaluation story-telling eyeless (blind) animals	69-70 70 72-3 19, 85n88
F	
Faraday, Michael (scientist), re chemical warfare Feyerabend, Paul (philosopher) science non-rational flies, wingless flood control Forster, Roger (theologian), on God's Two Books fossils	94n7 115 9 19, 85n88 29 51n41
evidence for evolution? historical evidence? kinds, most living represented living fossils species, most extinct?	81-2, 132 70-1, 81 81, 87n112 81-2, 87n114 42

Futuyma, Douglas (biologist) fungi, primary and secondary roles	74 18
G	
Galileo Galileo affair, literature genes, role genetic code genetics, creationist literature geology, creationist literature God's Two Books gold (metal), extraction from seawater Gould, Stephen (biologist) evolution undirected, contingent imperfections prove evolution philosophical commitments in science granite, creation roles Great Ape Project Great Chain of Being Grene, Marjorie (philosopher) gritstone, creation roles	121-2 121-3 41, 45, 46 48 131 132 11, 51n41 92 58 61 74, 76 61-2 98 52n69 60, 82n7 62, 113, 125 98
н	
Haber, Fritz (chemist) Haber Process Development Drawbacks harnessing relationships in biology, Hawking, Stephen (physicist) Haydon, Graham (educationalist) secular education flawed helium Hirst, Paul (educationalist)	90-4 91 92-3 47-8 58, 127 13
Christian education, no such thing science, autonomy of Hitler, Adolf (German leader)	2 1 92
homology development (embryology) evolution, critical evidence for evolution, test case for evolutionist definition logic (demonstrating imperfection) molecular optimality implied hospitalisation and perinatal deaths Howard, Oliver Otis (American General) human history, creationist literature	79-80 71 70-80 72 76-9 78-9 77 44-5 89-90

human origins, literature human rights see rights Hume, David (philosopher) Humphrey, Nicholas (psychology professor) superiority of science humus, role in soil hydrogen hydroxyapatite (mineral)	132-3 9 2 31 30, 38 105n8
I	
Ichthyosaurs imperfection creation evolution individualism institutions, human relative autonomy iron, creation roles	75 19, 76-7 74, 76-7, 86n88 11-12, 14, 51n45 22 34
J	
Japan, relationship with Germany Johnson, Phillip (law professor) naturalism and evolution naturalism, power of Jones, Steve (geneticist) science central to culture	92 59, 129 64, 65 58 7
К	
kinds (created kinds) Klinckmann, Evelyn (biologist) knowledge analogy of unscripted play bush personal (relational)	67, 81, 87n111, 131 61 6 3 6
L	
Lane, Eric (pastor) on education law (natural), concept laws, relation to causes least action, law Lederman, Leon (physicist) Reductionism Leroi, Armand (biologist) Lewis, C.S. (literary scholar and writer) chronological snobbery	84n38 64 45 35-6 24 87n105 115-16 50n25

Conditioners nature treated as God pantheism Lewontin, Richard (geneticist) on genes liberalism, definition life, nature life, origin	10, 25, 51n38 23 83n32 80, 121 49n1 40-1
chemical theories creationist literature limestone (calcium carbonate) creation roles liver and argument from homology living things, uniqueness Lovejoy, Arthur (historian) Lovelock, James (independent scientist)	101 130 105n9 17, 33, 98 , 97-8 78 78 40-1, 47-8 82n7 101
M	
Magnesium creation roles Mainx, F (biologist) management as key social role mangroves, natural flood control	96, 105n14 38 85n57 12 29
Mars (planet) atmosphere compared to Earth's life on? Marston, Paul (scientist), on God's Two Books mathematics, not neutral Marwell, James Clark (physicist)	100 , 101 83n20 51n41 2
Maxwell, James Clerk (physicist) molecules as manufactured items mechanism (mechanistic worldview) Medawar, Sir Peter (medical scientist) Mendip Hills, limestone aquifer methodological naturalism	23 65, 84n47 75 98
critique of defined literature see <i>al</i> so naturalism	64-6 63 126-7
Midgley, Mary (philosopher) Modernism Modernisation Moore, John (biologist) More, Louis (physicist)	62, 119, 126 8, 8 , 50n13 4-5, 50n13 73 60
Moreland, James (philosopher) myth of scientism morning sickness and miscarriage Morris, Henry (engineer) mustard gas (chemical warfare) mutation and evolution	116-17, 127, 129 9 45 84n33, 126, 129 92 80-1

N

National Academy of Sciences (USA) naturalism,	61
critique	43
rationalism identified with	59
science identified with	58-9
see also methodological naturalism	00
Nelson, Paul (philosopher)	66
Newbigin, Lesslie (theologian)	
education not neutral	14
gospel as public truth	13
Nietzsche	9
New Scientist	
global morality	24
Newtonian (creationist) tradition in biology	41
Nietzsche, Friedrich (philosopher), will to power	9
nitrates	· ·
babies, new-born	93
·	
oceans, toxic amounts expected in	33
water, drinking	93
nitrogen	
air, dominance in chemically impossible	100 , 100-1, 105n21
creation roles	30,38
nuclear anargy use and abuse	20
nuclear energy, use and abuse	20
	20
O	20
	101-2
0	
O ocean-atmosphere system oceans	101-2
ocean-atmosphere system oceans chemically impossible	101-2 100 , 33-4, 99-101
ocean-atmosphere system oceans chemically impossible design	101-2 100, 33-4, 99-101 100, 99-102
ocean-atmosphere system oceans chemically impossible design why so vast and deep?	101-2 100, 33-4, 99-101 100, 99-102 27
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution	101-2 100, 33-4, 99-101 100, 99-102 27 84n43
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist)	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution	101-2 100, 33-4, 99-101 100, 99-102 27 84n43
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms chemically impossible	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms chemically impossible	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms chemically impossible generative systems	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms chemically impossible generative systems homeostatic, not steady state maintain physical world in steady state osmosis and cell design	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms chemically impossible generative systems homeostatic, not steady state maintain physical world in steady state osmosis and cell design oxygen	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40 34 40 40 42 103-4
ocean-atmosphere system oceans chemically impossible design why so vast and deep? Ockham's razor and evolution Olsen, I.D. (biologist) open systems and evolution optimal design see design organisms chemically impossible generative systems homeostatic, not steady state maintain physical world in steady state osmosis and cell design	101-2 100, 33-4, 99-101 100, 99-102 27 84n43 73 40, 38-40

Ρ

pancreas cells, turnover pantheism, C.S. Lewis on paradigm see conceptual framework Patterson, Colin (palaeontologist) biogeographical variation trivial political commitments in science pentadactyl limb	40 83n32 71 62 72-3, 85n73
people	42 43 44-5 61 29, 53n104 34, 105n8 38 92 77 30-8 36-7 34-6
steady state Plantinga, Alvin (philosopher) plasmas (physics) pollution	37-8 66, 127 32, 54n112
air pollution Popper, Karl (philosopher) potassium, creation roles prediction and explanation in science proteins, self-ordering? Proxima Centauri (star), Pumphrey, Richard (zoologist)	20, 52n67 65, 68, 113-14, 133 31 69-70 55n157 26 60
R	
rain, acid see acid rain rational autonomy see autonomy Ratzsch, Del (philosopher) evolution and creation red blood cells, turnover redox reactions reductionism Religious Education religious freedom rights, human and non-human Ruse, Michael (philosopher)	83n29, 128 40 32-3, 54n116 24 12, 14 1 21 64, 127

S

Sacculina (parasite) Scadding, Steven (zoologist) on vestigial organs	75 77
science biological see biological sciences Christian perspective	5-6, 13, 14-49, 107
critiques, secular	117-21
knowledge, superior form of	1-2, 49n6
objective? physical see physical sciences	1,2, 106-7
religion, status as	7-8, 82n4
religious roots of	108-10 65, 110-111
science, history of literature	110-11
science, philosophy of	65, 111-117
literature science teaching	111-117
integrated?	38
Selbourne, David (political philosopher)	51n45
silicon, creation roles Sinnott, Edmund (geneticist)	20, 31,38 61
SLIMEs (subsurface microbes)	55n145
smallpox virus, elimination	24
Sober, Elliott (philosopher) society, Western	84n43
energy and water use, scope for reducing	29
secularised?	11
social roles, key sodium, creation roles	12 31
soil, composition	31
stars	25-6
steady state systems Storer, T.I. (zoologist)	37-8 85n57
stories	00.10.
scientific explanations, role in	72-3
use in teaching storms, creation roles	17, 88-94 37
structuralism (biology)	41
sulphur creation roles	34 38
Sun	30
not an 'average' star	26, 53n90-92
system, definition	54n119
Т	
TB, cause	46-7
teeth, canine	

diverse roles thalidomide (drug) theistic evolution see evolution (theistic) theories, function in science theory testing therapy as key social role thermodynamics and evolution Thiessen, Elmer (philosopher) time and evolution truth as personal turnover rates of tissues	18 20 69 69-70 12 39 , 40 , 38-40, 54n128, 129-30 vi 81 6 40
U	
universe hierarchical structure why so large? wrong word for God's creation utilitarianism	25-6 26, 53n87 23 14
V	
Van Till, Howard (physicist) variation (hereditary) mosaic patterns only trivial recorded Venus (planet) atmosphere compared to Earth's vertebrate body plan see body plans vestigial organs Villee, Claude (zoologist) Vine, Ian (educationalist) liberalism and rational autonomy	84n37 71, 85n68 71 100 , 101 65, 77, 86n92, 130 74 49n2
W	
Ward, Keith (theologian) on naturalism washing-machines, water leakage of drinking water in UK whaling attitude of Japan white blood cells, turnover wholes and parts Wolpert, Lewis (biologist) Woods, Ronald (educationalist) no indoctrination in science worldview analysis, literature worldviews	84n39, 127 17 34 29, 53n102 24 40 47 58 2 107-8 4-5

Burnett, David Christian faith, relation to secular secular and education Wright, Tom World War, First (1914-18) chemical warfare Haber, Fritz, role of naval battles Wright, Tom (theologian), on worldviews	4 5-6 50n10 6-10 10-13 4 91-2 91-2 91
Υ	
yoghurt, waste in production	53n103
Bible Quotations	
Job 38:4,33 Psalm 19:1,6-7 Psalm 104,3-4,10,13,14,21,27,29 Psalm 104:24 Jeremiah 33:20-1, 25-6 Romans 8:32 1 Corinthians 3:21-3 Ephesians 1:21-3 Philippians 2:15-16 Colossians 1:15-16 Colossians 2:9-10 2 Timothy 3:12	19 22 22 19 22 58 58 58 10 58 58 58