SHOW HOW GOD'S CREATION HAS INSPIRED AUSTRALIAN INVENTIVENESS.

Curriculum Suggestions for an integrated unit, showing which activities could be undertaken for each curriculum area, and for which of the six categories of competition they might be relevant. **The suggestions as stated do not necessarily satisfy the rules and judging points of a particular category.** The suggestions are simply non-exhaustive lists of ideas for a variety of activities you could do with your students on the theme of Australian inventiveness. You can probably think of more ideas or vary those suggested here. Various Bible verses appearing in these suggestions could apply to more than one activity. You may be able to find more appropriate verses for your particular activities than those given. Wording of Bible verses will vary in different translations, so, to assist the judges, please note on the entry form which translation you used (eg. NKJV) for a particular activity entered in the comps.

One way to use these activities for the purposes of the competitions is to carefully choose an invention you can make a lot out of. For example, choose an invention you can make two or more entries about : make a Poster and write a Song, write a factual account or report for a Writing entry, put the science of the activity into a Science entry, and the mathematics of the activity into a Mathematics entry. There may be enough images from each of these for an ICT entry.

+ beside an activity number means a relevant resource is available for loan from the Creation Education Resource Centre.

Creative Arts.

categories of competition in Semester 1, 2013

activity	Poster	Song	Writing	Science	Maths	ICT
1. create an artwork of a scripture that relates to an invention (eg. Exodus 2 : 16)	√			√		√
2. create a poster of a scripture that relates to an invention (eg. 2 Chronicles 26 : 15)	√			√		
3. make a model of an Australian invention that has been inspired by God's creation				√	√	√
4. make puppets for a puppet play (eg. for an English Language Arts activity)			√			
5. illustrate a recount, information text or storybook (see #2 & #3 of English Language Arts)			√			
6. illustrate a Science or Mathematics project				√	√	
7. use found materials to create a scene about an Australian invention that has been inspired by God's creation	√	√	√			√
8. draw a comic book about an Australian invention that has been inspired by God's creation.	√		√			√

Health and Physical Education. **categories of competition in Semester 1, 2013**

activity	Poster	Song	Writing	Science	Maths	ICT
1. study Howard Florey's leadership in discovering and developing penicillin during WW2			√	√	√	
2. study the inventive work of Charles Rothauser in developing the plastic hypodermic syringe			√	√		
3. investigate the innovative work of Graeme Clark in developing the bionic ear (Job 42 : 5A)			√	√	√	
4. research developments by Fiona Wood in the treatment of burns victims			√	√	√	
5. investigate Earl Owen's design of the operating microscope and micro-instruments used in microsurgery			√	√	√	√
6. elucidate the development of ultrasound at the Commonwealth Acoustic Lab in Sydney (Genesis 25 : 22 – 24)			√	√	√	√
7. explain the use of memory cards in the Australian designed Betachek G5 blood glucose monitor			√	√	√	√
8. find out about Alfred Traegar's development of radio communications for the Aerial Medical Service			√	√	√	√
9. find out about Lucy Garlick's development of a body chart and medical chest for inland Australians (1 Corinthians 12 : 14–18)	√	√	√	√	√	√

Performing Arts. **categories of competition in Semester 1, 2013**

activity	Poster	Song	Writing	Science	Maths	ICT
1. make up a song, hymn or chorus about how God's creation has inspired an Australian invention	√	√	√			
2. make up a rhyme, jingle or rap about an Australian invention that has been inspired by God's creation	√	√	√			
3. explain innovations of a Stuart & Sons grand piano in comparison with its predecessors		√	√			
4. demonstrate the skills needed to play a didgeridoo		√				√
5. use simple instruments to create the sounds of an Australian invention that has been inspired by God's creation		√				√
6. demonstrate how the sounds of #5 can be reproduced using a Fairlight synthesiser		√		√		
7. use a verse or verses of Scripture to make a song about an Australian invention that has been inspired by God's creation		√				
8. write a praise song thanking God for an Australian invention that His creation has inspired		√				
9. make up a play, mime, pantomime, creative movement about an Australian invention that has been inspired by God's creation	√		√			
10. make up a puppet play (see #4 of Creative Arts)			√			
11. use the tune of Happy Little Vegemites to write a song to thank God for His inspiring creation		√				
12. create & perform a television ad, interview or news item about how the Jackie Howe singlet originated (Genesis 31 : 19A)			√			

English Language Arts. **categories of competition in Semester 1, 2013**

activity	Poster	Song	Writing	Science	Maths	ICT
1. write a story / essay / recount / poem about God's creation inspiring an Australian invention			√			
2. collate an illustrated recount or information text about God's creation inspiring an Australian invention			√			
3. make an illustrated storybook about an Australian invention that has been inspired by God's creation			√			
4. expound the inspiration for a vehicle to drive people 'to church on Sundays and pigs to market on Mondays' (Hebrews 10 :25)		√	√			√
5. write about Australian inventions that focus on stewardship of God's creation (Psalm 8 : 6)	√	√	√			
6.+. write a biography about Raymond Jones or another Australian creationist ecologist (eg. 1 Sam 2 : 30)	√	√	√	√		√
7. use PowerPoint presentation to present researched information				√	√	√
8. write an historical account of an Australian invention that has been inspired by God's creation			√			√
9. compose a journal / diary / letter based on research of #8 above or #14 below			√			
10. produce an illustrated dictionary about Australian inventions that have been inspired by God's creation			√	√	√	√
11. compose a crossword puzzle / word search about Australian inventions that have been inspired by God's creation			√	√	√	
12. design a leaflet for a specific target audience about an Australian invention that has been inspired by God's creation	√		√	√	√	
13. expound human creativity as an aspect of being created in God's image (Genesis 1 : 26–27)			√	√		√
14. document careers of Australian scientists whose inventions have been inspired by God's creation			√	√		√
15. produce a glossary of terms relevant to Australian inventions that have been inspired by God's creation			√	√		√
16. write an account of John Ridley's sojourn in Australia where he invented the stripper harvester (Joel 3 : 13A)	√		√			
17. explain boimimicry from a creationist perspective (Genesis 1 : 12, 21, 25)		√	√			√

Science. **categories of competition in Semester 1, 2013**

activity	Poster	Song	Writing	Science	Maths	ICT
1. investigate John Floyd's research into speeding up smelting processes (Job 28 : 1–2)				√	√	
2. explain the scientific principles of the stump jump plough developed by the Smith family in South Australia (Daniel 4 : 15A)				√	√	√
3. show how Federation wheat was bred to resist drought and rust fungus (Ex 34 : 22)				√	√	√
4. demonstrate the effectiveness of an organic fertiliser such as Dynamic Lifter, invented in NSW by Norman Jennings				√	√	√
5. study the development of the Wolseley shearing apparatus (1 Samuel 25 : 2)				√	√	
6+. explain how Ian MacReadie applies creationism to his research in molecular and micro biology (Genesis 3)				√	√	√
7+. describe how David Pennington applies creationism to his work in plastic surgery (John 18 : 10, Luke 22 : 49 – 51)				√		√
8+. clarify how Stephen Grocott's work on optically active compounds supports creationism (Genesis 1 : 1)				√	√	√
9+. describe how John Hartnett applies creationism to his work in cosmology (Genesis 1 : 16)				√	√	√
10. show how God's creation inspired the invention of the Victa lawnmower (Genesis 1 : 11)	√	√	√	√	√	√
11. relate God's creation to the effectiveness of the rotary clothes hoist (Ps 147 : 18)	√	√	√	√	√	√
12. investigate the range of Wiltshire cutting tools as innovations inspired by God's creation (1 Samuel 13 : 19 – 21)	√	√	√	√	√	√
13. demonstrate & explain Green and Wenham's contributions to photovoltaic science (Psalm 74 : 16)	√	√	√	√		√
14. demonstrate & explain Australian leadership in the development of solar hot water systems (Psalm 136 : 8)	√	√	√	√		
15. demonstrate BioWAVE as an example of Australian inventiveness inspired by God's created sea creatures				√	√	
16. demonstrate bioSTREAM as an example of Australian inventiveness inspired by sea currents in God's creation				√	√	
17. construct models to demonstrate the washdown & push actions of dual flush toilet cisterns				√	√	
18. use a Supreme mousetrap to demonstrate the creationist theory of irreducible complexity (Psalm 139 : 14)	√	√	√	√		√
19. relate God's creation of minerals to the invention of the Jameson Cell and / or the Potter–Delprat process (Job 28 : 1 – 2)				√	√	
20. relate God's creation of minerals to the invention of the Integrated Communications Cap Lamp / or the Personal Emergency Device (Job 28 : 3 – 4)			√	√		√
21. relate God's design of human senses to the invention of the Audio-Tactile Pedestrian Detector (Deut 29 : 4)		√	√	√		
22. show how the movement of waves, fish, birds and snakes inspired Lawrence Hargrave's kite experiments (Jeremiah 5 : 22)				√		√
23. explain how fish locomotion inspired the design of the Brennan Torpedo (Ps 8 : 8)	√	√	√	√	√	√
24. build a working model of an Alston windmill & demonstrate its use (Ps 147 : 18A)	√	√	√	√	√	√
25. build and demonstrate the use of a Coolgardie Safe (Joshua 9 : 12)			√	√	√	
26. show how the invention of the woomera was inspired by God's creation (Genesis 1 : 26)			√	√	√	
27. investigate one or more of David Unaipon's inventions			√	√	√	
28. research and explain how the Sarich Orbital engine works				√	√	√
29. show how Cliff Howard's self-propelled rotary hoe operates (Isaiah 7 : 25)				√	√	
30. show how Mollison's Permaculture is stewardship of God's creation (Gen 2 : 15)			√	√	√	√

Mathematics. **categories of competition in Semester 1, 2013**

activity	Poster	Song	Writing	Science	Maths	ICT
1. show the mathematics of the genetic breeding programme that produced the Peppin Merinos (cf Genesis 30 : 35 – 43)					√	
2+. use a timeline or table to show Tas Walker's flood geology model (Genesis chapters 7 and 8)					√	√
3+. explain mathematical aspects of the Bellsouth incubator that is designed according to creationist principles (Matthew 23:37).					√	
4. record and present data on the amount of solar electricity produced (see Science activity 13)					√	
5. record and present data on the amount of solar hot water produced (see Science activity 14)					√	
6. compare and contrast the meter readings of #4 and / or #5 above					√	
7. show six examples of Australian inventiveness inspired by the days of creation week (Genesis chapter 1)					√	
8. draw a timeline for the introduction of the first plastic bank notes in the world (Exodus 20 : 15)					√	
9. show how wavelengths of light inspired the invention of Unilite / Polilight (Gen 1:3)	√		√		√	√
10. explain the mathematical aspects of how the Grael PSG and EEG works (Genesis 2 : 21A)				√	√	
11. record & present data about water requirements &/or temperatures produced by a Coolgardie Safe (Joshua 9:5)		√	√	√	√	
12. record & present data about work accomplished by an Alston windmill (Ps 135:7C)		√	√	√	√	
13. compare and contrast spearthrowing accuracy and / or thrust with and without a woomera	√	√	√	√	√	√
14. show mathematical aspects of the design and / or action of the comeback boomerang (Genesis 1 : 8) **NB :** For safety reasons, if you want to throw a boomerang, do so only under the direct supervision of a qualified and experienced thrower.	√	√	√	√	√	√
15. compile a chronology of Australian inventions that have been inspired by God's creation (Ecclesiastes 7 : 29)					√	√

Social Studies, including History. **categories of competition in Semester 1, 2013**

activity	Poster	Song	Writing	Science	Maths	ICT
1. discuss the implications for vision impaired people of the Mountbatten Brailler invented by Quantum Technology in Sydney	√	√	√		√	√
2. research the innovations harnessed by Reverend John Flynn in providing for inland Australians	√			√	√	√
3. demonstrate how John O'Sullivan led CSIRO to develop wi-fi as an Australian invention			√			√
4. critique inventiveness for ungodly ends, such as the Automatic Totaliser invented by a minister's son (Romans 1 : 30)			√		√	√
5. survey the social impact on Australian society of inventions such as the Automatic Totaliser (Psalm 106 : 39)	√	√	√			√
6. compare and contrast interest shown in Australia of a reliable vote counting machine and the Automatic Totaliser			√		√	√
7. investigate the social impacts of Hugh McKay's involvement with the Sunshine Harvester (Acts 10 : 2, 4, 31)			√		√	
8. debate the pros and cons of the resistance to James Harrison's refrigeration methods of the 1850s	√	√	√		√	
9+. explain challenges to Chang-Sha Fang's faith when he attended university (2 Thessalonians 2 : 15)	√					
10. document the impacts of the Super Sopper on Australian sporting events (cf. Genesis 8:14)	√	√	√	√	√	√
11+. research the effectiveness of a strong Christian influence in bringing irrigation to Mildura (Proverbs 8 : 12)			√			√
12. critique the history of difficulties faced by Australians having their inventions accepted in Australia			√	√	√	√