UNITS OF WORK STAGE 3 ODD YEAR			
Units	Time Traveller	State of the Matter	A Change For the Better
General Topics	• solar system	• solid, liquid, gas	inventions
	 an ancient land 		Australian products
	 natural rapid changes to Earth 		
Outcomes	ST3-3VA, ST3 – 5WT,	ST3- 1VA, ST3- 4WS, ST3- 5WT,	ST3- 1VA, ST3 – 2VA, <mark>ST3- 4WS,</mark> ST3- 5WT,
	ST3 – 8ES, ST3 – 9ES	ST3- 12MW, ST3-13MW	ST3 – 14BE, ST3-16P
	Students:	Students:	Students:
	 research the key features of the planets of the 	 observe and compare the differences in the 	 identify elements that work together as a system to serve and
	solar system and compare how long each takes	properties and behaviour of solids and liquids,	support built environments and how they are designed to meet
	to orbit the sun	e.g. shape and ability to flow	the needs of people, e.g. transport systems that provide access
	 demonstrate using models that the Earth 	 demonstrate that air has mass and takes up space, 	for people to get to work or systems that provide electricity to
	revolves around the sun & moon revolves around	e.g. in an inflated basketball, bubbles,	sites
	the Earth	balloons and beaten e.g. an egg white	 draw a plan of, or model, a built environment that includes a
	 research the important contributions made by 	 observe and describe some readily observable 	range of systems to meet the needs & wants of a specific group
	people from a range of cultures and	reversible changes that materials can	of users, e.g. shade for a playground
	organisations, using technologies of the time, to	undergo, e.g. by melting and then solidifying	• consider ways that the design or use of places and spaces have
	advancing scientific understanding of the solar	chocolate, and dissolving and retrieving salt or	changed over time and the social and/or environmental factors
	system such as Aryabhata, Copernicus, Galileo,	sugar from water	that have influenced these changes, e.g. changes in the design
	CSIRO and NASA	 make and test predictions about the effect of 	and use of a library due to technological developments or the
	 describe how Aboriginal and Torres Strait 	temperature on the state of some substances,	design of buildings after an earthquake
	Islander peoples use observations of the night	e.g. adding and removing heat from water	 generate and develop ideas about how built environments
ļ	sky to inform decisions about some everyday	 observe some irreversible changes that common 	might be designed and constructed in the future to incorporate
Content	activities, e.g. food gathering and ceremonies	materials undergo to identify that the changes may	sustainable environmental practices, e.g. the use of recycled
	 describe using examples how natural geological 	result in new materials or products, e.g. rusting iron,	materials, natural lighting and solar energy
	events cause rapid changes to the Earth's	burning paper, cooking a cake and making toffee	develop designs & solutions to meet specific social or
	surface, e.g. earthquakes\volcanic eruptions or	 classify some observable changes that materials 	environmental needs of users, e.g. an energy-efficient building or
1	tsunamis in Asian region or the world	undergo as reversible or irreversible	high-traffic airport terminal/train station
	• research how some discoveries or inventions	• identify the properties of materials used in a	• investigate a system to produce or manufacture a product, e.g.
	have increased scientific knowledge and	familiar product and relate them to its use	using an assembly line to produce a food product for sale in the
	provided evidence about natural events that	• explore how materials are used in innovative ways	school canteen, or use of robotics in manufacturing a product
	cause rapid changes at the Earth's surface	for specific purposes, e.g. the use of soft fall	• compare the production process in a domestic setting to mass
	• investigate a recent Australian example of the	materials in playgrounds and geotextiles to retain	production, e.g. baking bread in the home to making it in a
	effect on the Earth's surface of extreme weather	water in landscaping	bakery
	conditions, e.g. cyclones, droughts or floods	describe how scientific and technological	• research the environmental impact of an everyday product
	• identify ways that advances in science &	knowledge about the properties of materials can be	from its production through to its use and disposal, e.g. a PET
	technology have assisted people to plan for &	used to inform decisions about use for their specific	bottle, a car or newspaper
	manage natural disasters to minimise their	purposes	 redesign a product to respond to a specific social or
	effects, e.g. detection systems for tsunamis,	• research the reasons for and the benefits of using	environmental consequence, e.g. redesign the packaging of a
	floods & bush fires	solid, liquid and gaseous fuels for heating	food product to reduce garbage