



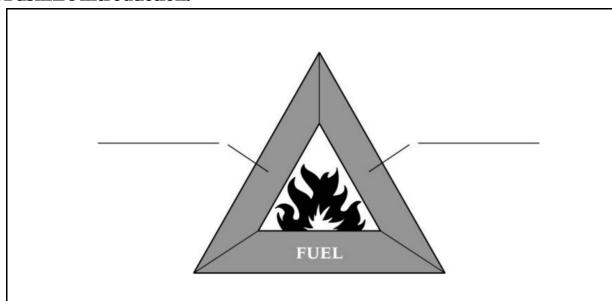
Science and Geography Stage 3 - WNPEEC Impact of Fire and Living Things Response to Fire

Key inquiry Questions for the day:

- Science How do the structural and behavioural features of living things support survival?
- Geography How can the impact of bushfires on people and places be reduced?

PRE-EXCURSION WORK

Woodland Bushfire Introduction:



1. Complete the missing words of the fire triangle

2. What things could provide heat to start a bushfire?				
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3. What things could pr	rovide fuel to start a b	oushfire or ke	ep it going?	
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•		•		
4. Identify where the fire	e would get oxygen fr	om		
5. What climate condition	ons make it perfect fo	r fire?		
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•		•		
6. Plants have various v	ways to survive a bus	hfire. Resear	ch or as a class o	discuss
the various adaptations	plants have to enable	e survival dur	ing and after a fir	e.
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7. As a bushfire advances and passes through an area, some animals have certain strategies that enable them to survive a fire.

For the animals listed below, describe the strategies they may use to survive a bushfire. Explain how the fire will impact upon their food, water and shelter.

Animal	Survival Strategies	Impact of Fire
Koala		
Goanna		
Native Bee		
Antechinus		
Wedge Tail Eagle		
Woodland Bat		



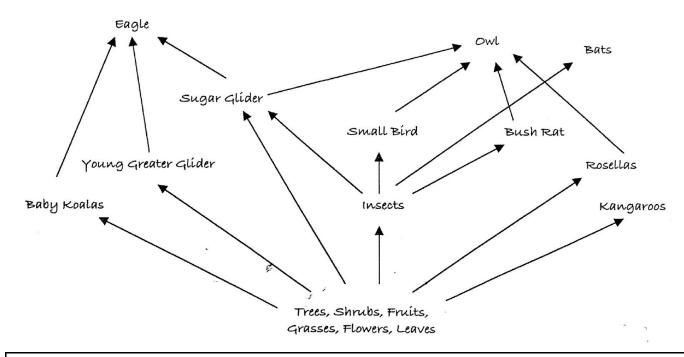






Changes Following Fire - Fire and Fauna

The diagram below shows a typical food web found in a woodland ecosystem



7. An intense bushfire sweeps through the woodland killing some plant specie	es:
including tall eucalypt trees.	

List the animals you think could escape the bushfire.

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8. A greater Glider survives the bushfire, why might it not survive in the short term directly after the fire

9. After a fire, animals that live on the ground and under shrubs are more visible as they have nowhere to hide. Which animals in the food web would benefit from these new conditions

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10. Draw your home and label what you can do to reduce the impact of bushfires on people and your place.		
11. What is your area fire rating today?		
LOW-MODERATE CATASTROPHIC		

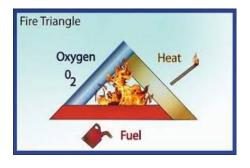
WNPEEC EXCURSION

1. Scientific Instruments/ tools used to measure fire conditions			
Measurements	Instrument/ tool		
Date			
Time			
Temperature (°C)		to the second se	
Wind Speed (km/hr)		MATERIA GO - C F T	
Wind Direction (°)			
Humidity (%)		10001	
Fuel Load kg/Ha			
Gradient (°)			

2. Warrumbungle Fire Rating Investigation				
Measurements	White Gum Lookout	WNPEEC		
Date				
Time				
Temperature (°C)				
Wind Direction (°)				
Wind Speed (km/hr)				
Humidity (%)				
Fuel Load kg/Ha				
1.Gross weight (g/0.25m²) - bag weight = Net weight (g/0.25m²				
2.Net weight X 4 = Net waste (g/m²)				
3.Net weight (g/m²) ÷ 1000 = Net waste (kg/m²)				
4.Net weight (kg/m²) X 10,000 = net weight (kg/Ha)				
5.Net weight (kg/Ha) ÷ 1000 = net weight (t/Ha)				
Gradient (°)				
YOUR FIRE RATING				

3. What location would offer more favourable conditions for a bushfire today?

4. Why?





5. Evidence of regeneration of living things in the Warrumbungle N.P. after the 2013 fire (words and drawings)				
	Plant regeneration	Animal occupation		
Evidence				
6. What does your evidence tell you about the regenerative state of the Warrumbungle National Park?				

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8. Gamilaraay Aboriginal people cared for this area for many thousands of years. How may have they used fire here?

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9. What could we do to reduce the impact of a bushfire, like the 2013 fire?

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