





## YOUR CRITICAL MISSION

Level 1 Gather intelligence about bush fires

Level 2 Work out ways to prevent and respond to them

Level 3 Identify problems and come up with solutions

Level 4 Build prototypes for those solutions

Level 5 Prepare your own bush fire plans

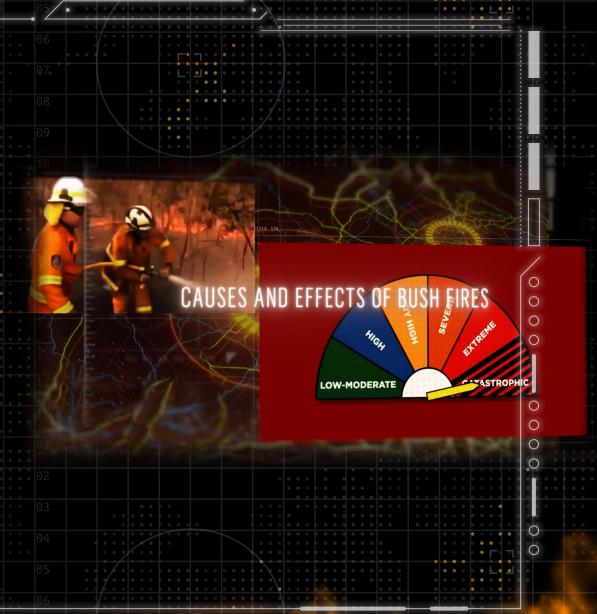
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# Level 1 GET SMART

With videos, reports, news stories and maps, gather intelligence about:

- · What causes bush fires?
- · How can people prepare for them?
- · What are ways of preventing them?
- · How should you respond to a bush fire?
- · What happens afterwards?





# Level 1 GET SMART

### Levelmaster:

M-Power AKA Emma

#### Passions:

- · Making positive connections
- · Building effective teams

### Key skills:

- · Leadership
- · Logic and empathy

M-Power is a natural born leader - with the charisma to pull a team of Firestormers together and motivate them to explore deep into the problems of bush fires.













# **SPOT A PROBLEM**

### Levelmaster:

Mavric AKA Mitchell

#### Passions:

- · Aerodynamics
- · Aerial firefighting

### Key skills:

- · Dexterity and vision
- · Drone piloting

Mavric has amazing vision and nothing escapes his eagle eyes. So he's just the Firestormer you need in your team when there's some intense spotting of problems to be done.



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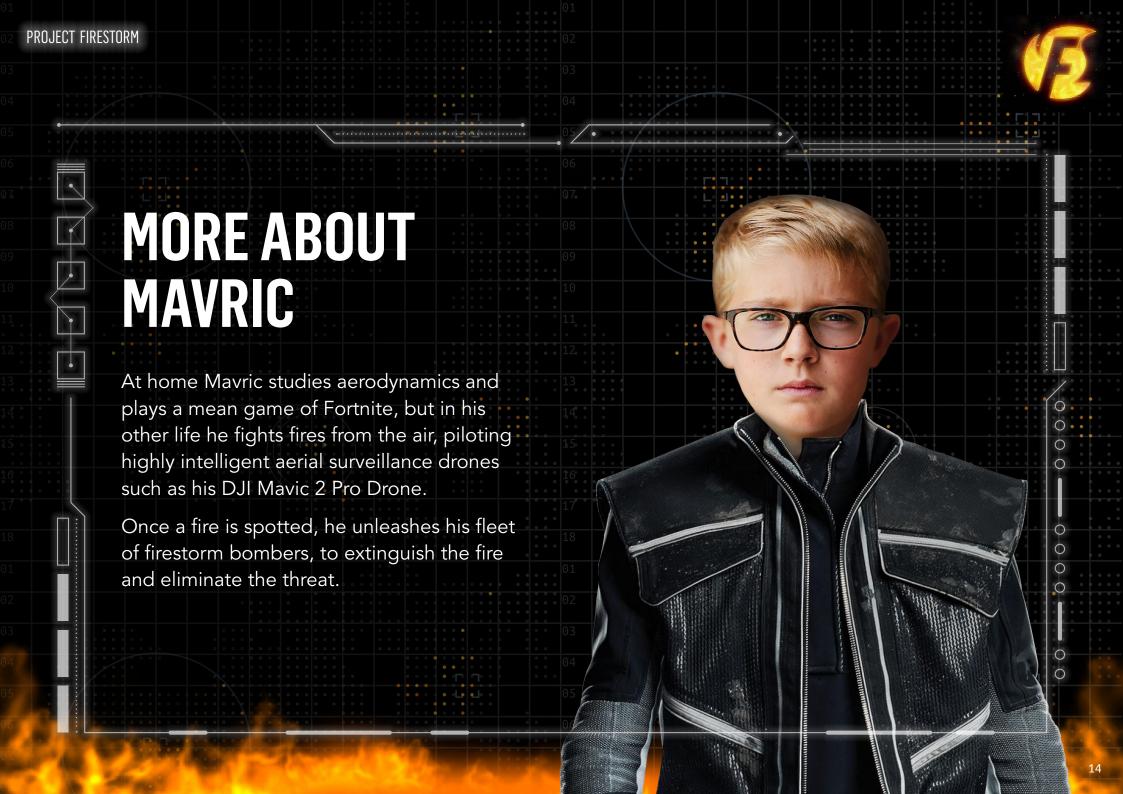


# SPOT A PROBLEM

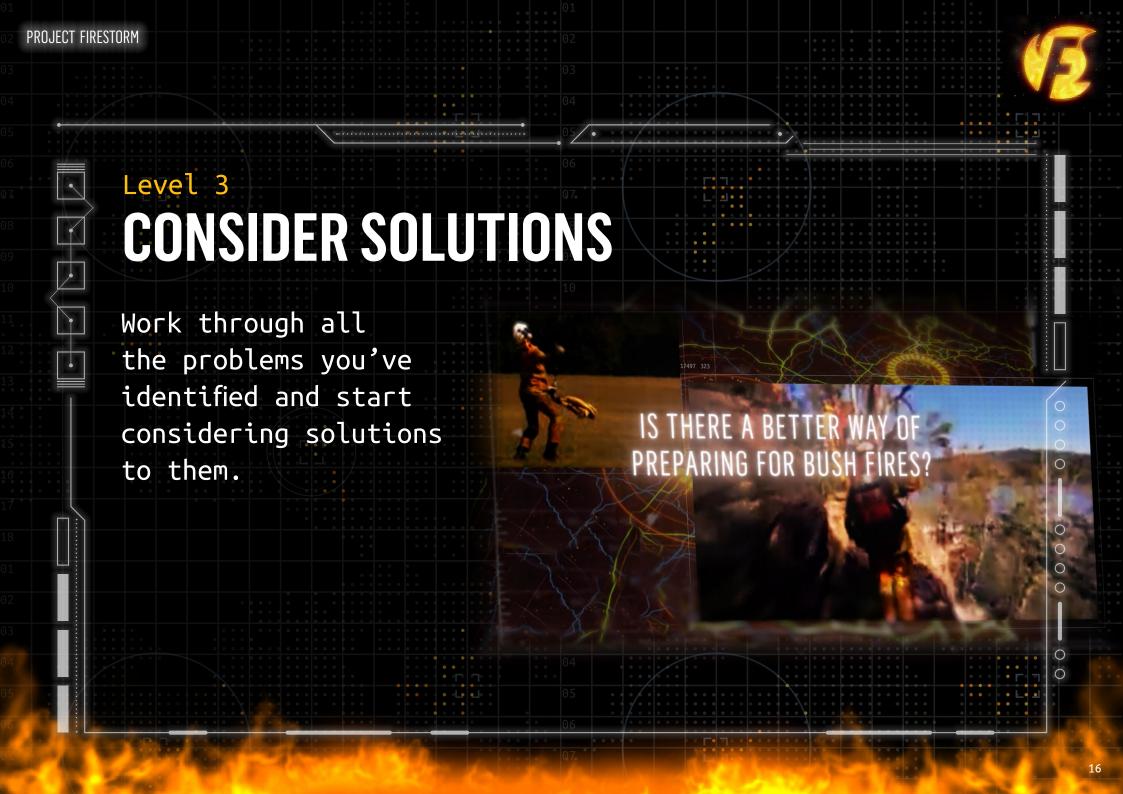
There are any number of issues associated with bush fires, such as the need to:

- Stop fires happening in the first place
- Stop fires from spreading
- Make sure everyone is well prepared
- Let people know a fire's coming
- Keep firefighters safer
- · Tackle fires in inaccessible areas
- · Help people who can't help themselves
- · Rebuild fire-ravaged communities











## **CONSIDER SOLUTIONS**

### Levelmaster:

Rez-Q AKA Jarli

#### Passions:

- · Australian flora and fauna
- · Respecting cultural traditions

### Key skills:

- · Balancing the need for fire with its risks
- · Capturing and analysing environmental data

Rez-Q is a highly skilled indigenous ranger who knows fire is extremely important to the biodiversity of the environment but it can also be dangerous when not respected or managed correctly.



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Level 3

### **CONSIDER SOLUTIONS**

In your Firestormer group, consider the problems associated with bush fires one by one and chat about potential solutions.

- Throw around lots of ideas for tackling the challenge
- · Let your imagination run wild
- · Come up with a short list of the best ideas
- Vote to choose the one to develop into a working solution

"Wisdom comes from listening to those around you and respecting the fact that every person has a part to play, and a worthy voice to be heard."

REZ-O



# MORE ABOUT REZ-Q

Rez-Q recognises that fire is an important symbol and practical tool in Aboriginal culture and that not all burning is bad. It is not only carried out or prevented to help animals and plants, but also to assist in growing food and medicine, as well as being used for cultural reasons such as for corroborees.

He acknowledges that each 'mob' as well as 'Elders', will have their own ways of looking after, and talking on behalf of, their specific piece of country; and that there are separate women's and men's areas.

"Explore solutions from every angle thinking about past, present and future."

REZ-Q







### **MAKE IT HAPPEN**

### Levelmaster:

**Sonar** AKA Zhang

### Passions:

- · High-tech equipment
- · Caring for the environment

### Key skills:

- · Smart device inventor
- · Perception and observation

Sonar is a gadget guru and a prototype professional, so he's just the Firestormer you need to help bring your ideas to life.





### **MAKE IT HAPPEN**

For inspiration, the ideas that one group of Firestormers came up with included:

- · Clever ways to automatically detect fires
- · Using new technology to fight fires
- Protecting entire towns from approaching bush fires
- Better protection for firefighters and their equipment
- · Systems for helping the victims of bushfires
- Ways to raise money for the NSW Rural
   Fire Service



# MORE ABOUT SONAR

For Sonar, a good night in is one spent studying complex algorithms or doodling ideas for inventions in his school books. But he can also be found building hi-tech prototypes of equipment that will help volunteer firefighters be alert and safe.

His latest invention is a GPS based wearable device that alerts volunteers and directs them to a bush fire location. Once they are there, the technology monitors their location, heart rate and temperature, and sends vital information to Firestorm HQ.









### **TEST AND SHARE IT**

### Levelmaster:

Robotica AKA Georgia

#### Passions:

- · Robotics and Cybernetics
- · All things mechanical

### Key skills:

- · Manual dexterity
- · Vision and creativity

Robotica has a toolbelt that would put even the most seasoned tradie to shame, and she knows how to use it. So she's just the person to help put the finishing touches to your ideas - and overcome any glitches.



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but it could be:

- Pictures and/or a video
- A presentation like this one
- An actual model or prototype





