## Year 5 Floods, Storms and Bushfires

## Lesson 10

Introduction	Floods, Storms and Bushfires – A Cross-Curricular Unit of Work
	In the previous lesson, we compared and contrasted ways to prepare for storms/floods and bushfires, and used this information to create a safety procedure. In this lesson, there is an Option 1 and Option 2.
	Option 1 is a Design and Technologies challenge, and Option 2 is a Digital Technologies challenge.
	<ul> <li>WALT – construct a new home, which is flood and fire-proof, using Design and Technology skills, and design an interactive PowerPoint presentation.</li> <li>WILF – research skills, designing a sustainable home, or creating an interactive PowerPoint presentation.</li> <li>TIB- Australia has houses built in areas that are prone to floods and fires, and we should all be aware of how to protect ourselves in the event of a flood or fire.</li> </ul>
Warm Up/Main lesson (10 mins)	<ol> <li>We have provided two (2) technology challenges. You may either select one challenge for all students or you may wish to advise students that they have two (2) options for the next couple of lessons.</li> <li>Provide images of houses that have been built to withstand floods and fires, by researching 'fire-proof houses and flood-proof houses'.</li> </ol>
	<ol> <li>Hand out the Design Challenge/s: Option 1 Design Challenge: Design &amp; Technologies and/or Option 2: Design Challenge: Digital Technologies</li> <li>Hand out the corresponding Criteria Sheet/s: Design Challenge: Criteria Sheet – Design &amp; Technologies and/or Design Challenge: Criteria Sheet – Digital Technologies.</li> </ol>
Main lesson (40 mins)	Discuss the requirements for these projects with the students, and answer any questions.
	<ul> <li>Option 1 (Provide Design Challenge and Criteria Sheets to students):</li> <li>1. Depending on the resources available to your students, they can create a model of their house, draw it or provide a detailed list of all the items they have chosen to build their house.</li> <li>2. Suggest taking notes for ideas, and drawing several designs before finalising their choice.</li> <li>3. Students should aim to complete research and a rough design for teacher or peer review that indicates at least some of the chosen materials and examples they've considered from around the world.</li> <li>4. Advise students that the class will be voting for the design that best meets the criteria.</li> </ul>
	<ul> <li>Option 2 (Provide Design Challenge and Criteria Sheets to students):</li> <li>1. Students will build an interactive PowerPoint presentation or game that teaches younger students about preparation for floods and fires.</li> <li>2. Advise students to use the materials and knowledge they've amassed during the unit.</li> </ul>





vise students to consider the needs of younger learners, and that younger idents will need simple vocabulary and a lot of visual text to support irning.
Idents should aim to complete a flowchart for teacher or peer review that
licates the flow of the slideshow, with the number of slides required.
DTE: Additional class time will be required if this project is to be completed
thin school time.
dents are to present their work to the class, and to either of the following:
Prep classes: explaining the familiar features of places people live in, and how they can be looked after, OR
Year 1 classes: to show them how to care for the natural, managed and built features in their environment. They need to show students the ways they can maintain and protect places that are special to them (e.g. home, school, church) from damage that can occur through flood and bushfire.
vith a partner.
er/school officer assistance.
record a television commercial to advertise the advantages of your house.
1 Design Challenge: Design & Technologies
2: Design Challenge: Digital Technologies
Challenge: Criteria Sheet – Design & Technologies
Challenge: Criteria Sheet – Digital Technologies
iters, laptops, iPads.
t books
on natural disasters in Australia.
lisaster.logan.qld.gov.au
ogan.qld.gov.au/disasters
ady Queensland
nities and Social Sciences
pact of bushfires or floods on environments and communities, and how
can respond (ACHASSK114)
vironmental and human influences on the location and characteristics of
and the management of spaces within them (ACHASSK113)
and collect relevant information and data from primary and secondary s (ACHASSI095, ACHASSI123)
teria to make decisions and judgements and consider advantages and
antages of preferring one decision over others (ACHASSI103, ACHASSI131)
ehearse and deliver presentations for defined audiences and purposes
prating accurate and sequenced content and multimodal elements
1700)
ference between needs and wants and why choices need to be made
ference between needs and wants and why choices need to be made how limited resources are used (ACHASSK119)
ference between needs and wants and why choices need to be made how limited resources are used (ACHASSK119) of resources (natural, human, capital) and the ways societies use them in
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