



**CHC**  
CHRISTIAN HERITAGE COLLEGE

---

# DIGITAL TECHNOLOGY

---

Assessment Task #1

Due Date: 24<sup>th</sup> August 2018  
Word Count: 1500  
Bachelor of Primary Education  
CR192 – Introduction to Technologies

## Contents

1.0 Introduction .....	2
2.0 Cyberbullying.....	3
2.1 The Issue for Years 3-6 .....	3
2.2 The Solution .....	3
3.0 Inappropriate Content.....	4
3.1 The Issue for All Primary Students .....	4
3.2 The Solution .....	5
4.0 Screen Time .....	5
4.1 The Issue for All Primary Students .....	5
4.2 Statistics About the Issue .....	6
4.3 The Solution .....	6
5.0 Students as Digital Citizens.....	6
6.0 Conclusion.....	7
References .....	8
Accessing the Animation .....	9
Explanation of Code Components .....	10
Complete Code.....	10

---

# Part 1

## Safe and Ethical Use of ICT

---

### 1.0 Introduction

Although the use of Information and Communications Technology (ICT) in schools has a significant number of benefits, there are also many issues surrounding it. The table below (Figure 1) outlines many of these issues surrounding the use of ICT both at school and at home. Three of these issues – cyberbullying, inappropriate content and screen time – will be discussed throughout the following sections, with possible solutions provided for each. It is important that students are educated on these issues as once students are educated they can feel safe, be safe and become Digital Citizens in an ever-growing world of technology.




	Commercial	Aggressive	Sexual	Values
<b>Content</b> (child as recipient)	Adverts Spam Sponsorship Personal info	Violent/hateful content	Pornographic or unwelcome sexual content	Bias Racist Misleading info or advice
<b>Contact</b> (child as participant)	Tracking Harvesting personal info	Being bullied, harassed or stalked	Meeting strangers Being groomed	Self-harm Unwelcome persuasions
<b>Conduct</b> (child as actor)	Illegal downloading Hacking Gambling Financial scams Terrorism	Bullying or harassing another	Creating and uploading inappropriate material	Providing misleading info/ advice

Table taken from *Safer Children in a Digital World: The Report of the Byron Review*, p.16 ([www.education.gov.uk/publications/eOrderingDownload/DCSF-00334-2008.pdf](http://www.education.gov.uk/publications/eOrderingDownload/DCSF-00334-2008.pdf)). Contains public sector information licensed under the Open Government Licence v2.0: see [www.nationalarchives.gov.uk/doc/open-government-licence/version/2/](http://www.nationalarchives.gov.uk/doc/open-government-licence/version/2/).

*Figure 1 – Categories of Risk*

## 2.0 Cyberbullying

### 2.1 The Issue for Years 3-6

One of the most well-known issues that arises with the use of ICT is cyberbullying. For students in upper primary schools, who have access to social media, text messaging, and the internet, they have taken the opportunity to bully others online or do face-to-face, and to do so. In our Year 4 to Year 9 students, cyberbullying is occurring in Year 5 (Bullying No Way!, 2009).  well as this, 84% of students who were bullied online reported they were also bullied in person (Bullying No Way!, 2009). Thus, this is an incredibly significant issue that must be discussed with upper primary school students to ensure their safety both online and offline.

### 2.2 The Solution

To alleviate the issue of cyberbullying, it is recommended that the following cycle be implemented in schools.

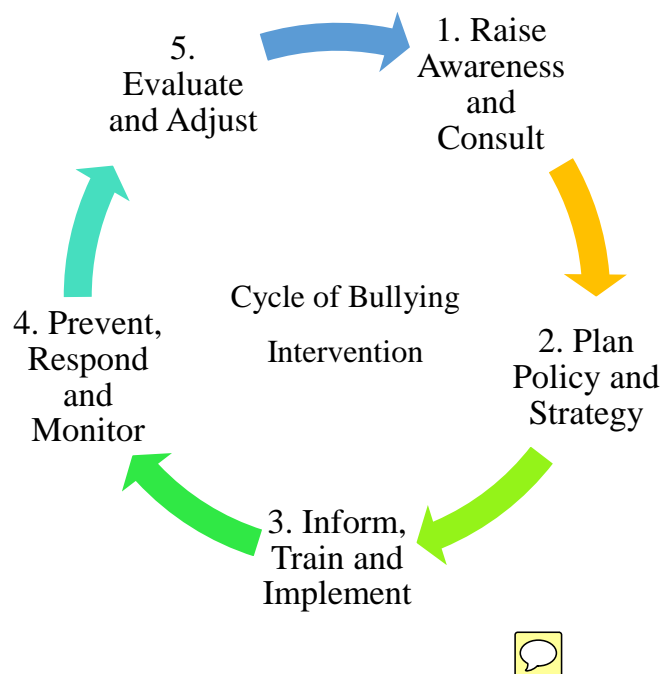



Figure 2 – Cycle of Bullying Intervention. Adapted from *Cyberbullying and E-Safety* (p.118), by A. Katz, 2012, London. UK: Jessica Kingsley Publishers.

1. Students of all ages, teachers and parents should be aware of the issues surrounding all forms of bullying, and that there is zero tolerance (Katz, 2012).
2. What procedures are in place to ensure they are regularly updated? (Katz, 2012).
3. Students of all ages should be aware of the policies in place (Katz, 2012).
4. The school should ensure that all staff and students in the school are aware of the role they can engage in to prevent bullying and the role they can play about reporting it (Katz, 2012).
5. The strategies should be implemented to ensure they are still effective (Katz, 2012).

By implementing this cycle both cyberbullying and bullying can be prevented, and students can be kept safe.

### 3.0 Inappropriate Content

#### 3.1 The Issue for All Primary Students

Children of all ages are naturally curious and unfortunately this can lead to them exploring inappropriate content. While schools have filters in place to protect students from inappropriate content, at home these filters are rarely in place to protect students from inappropriate content such as sites encouraging eating disorders. This is harmful for children with mental issues such as depression and eating disorders as it normalises these harmful behaviours (State Government of Victoria, 2017). 

For students in Prep to Year 2 they are more likely to explore or be lured in by content such as scams offering prizes. While schools have filters in place to protect students from inappropriate content, at home these filters are rarely in place to protect students from inappropriate content such as sites offering prizes. These students have the potential to explore these sites. The Victorian Government (2017) has created the Children Safe, n.d.). As such it is important for students to be protected from these sites both at school and at home.



### 3.2 The Solution



There are many strategies that can be implemented in order to resolve both the issue of protecting students' privacy and prohibiting inappropriate content. Firstly, as mentioned, most schools have filters in place to prohibit students from accessing, either intentionally or accidentally, inappropriate content on the internet. However, schools should also ensure that there are filters in place to protect students from unreliable websites containing scams. On this note, it is also important that the topic of filters is discussed with parents so they can implement these and protect their children at home.

Secondly, a 'no blame' culture should be implemented in schools (Keeping Children Safe, n.d.). This will encourage reporting their teachers and/or parents about inappropriate content.



Lastly, all students should be provided with criterion for measuring a website's reliability. This will assist them in steering clear of websites likely to be containing inappropriate content and scams (Keeping Children Safe, n.d.).



If each of these strategies are implemented, then students of all ages can remain safe while using digital devices as there are boundaries in place to protect them from harmful content.

## 4.0 Screen Time

### 4.1 The Issue for All Primary Students

Screen time is also an issue when using ICT. Too much screen time can be harmful to students and can lead to a lack of physical activity. There are hours and hours of endless screen time on digital devices including video games and social media. Children spend hours on end on digital devices and screen time on is not always brain-stimulating activities.



## 6.0 Conclusion

In conclusion, there are several issues surrounding the use of technology, only a few of which have been covered. It is hoped that the solutions provided to alleviating these issues will ensure that students are safe online both at school and at home. Teachers should encourage students to use technology responsibly, in a way that encourages them to become digital citizens.





## References

Australian Curriculum, Assessment and Reporting Authority. (2018). *Aims*. Retrieved from <https://www.australiancurriculum.edu.au/f-10-curriculum/technologies/digital-technologies/aims/>

Australian Government. (n.d.). *Digital Citizenship*. Retrieved from <https://www.esafety.gov.au/education-resources/classroom-resources/digital-citizenship>

Australian Institute of Family Studies. (2016). *Children's screen time*. Retrieved from <https://aifs.gov.au/publications/childrens-screen-time>

Bullying No Way! (2009). *Facts and figures*. Retrieved from <https://bullyingnoway.gov.au/WhatIsBullying/FactsAndFigures>

Katz, A. (2012). *Cyberbullying and E-Safety*. London, UK: Jessica Kingsley Publishers.

Keeping Children Safe. (n.d.). *Safe and responsible use*. Retrieved from [file:///D:/Users/Gabrielle/Downloads/qs\\_safe\\_responsible.pdf](file:///D:/Users/Gabrielle/Downloads/qs_safe_responsible.pdf)

State Government of Victoria. (2017). *Inappropriate Content*. Retrieved from <https://www.education.vic.gov.au/about/programs/bullystoppers/Pages/adviceinappropriatecontent.aspx>

---

# Part 2

## Animation and Coding Explanation

---

### Accessing the Animation

1. Go to [https://www.codeforlife.education/login\\_form](https://www.codeforlife.education/login_form) and register as a student by entering the following details.



2. Click on “” button on the right side of the page.
3. Scroll down to the “” button on the drop-down arrow.
4. Click on “” button.
5. You will then be able to create a code for the level created. (Pictured below in Figure 3)



Figure 3 - Rapid Router Route

## Complete Code

Explanations for the components circled in yellow have been provided on the next page.

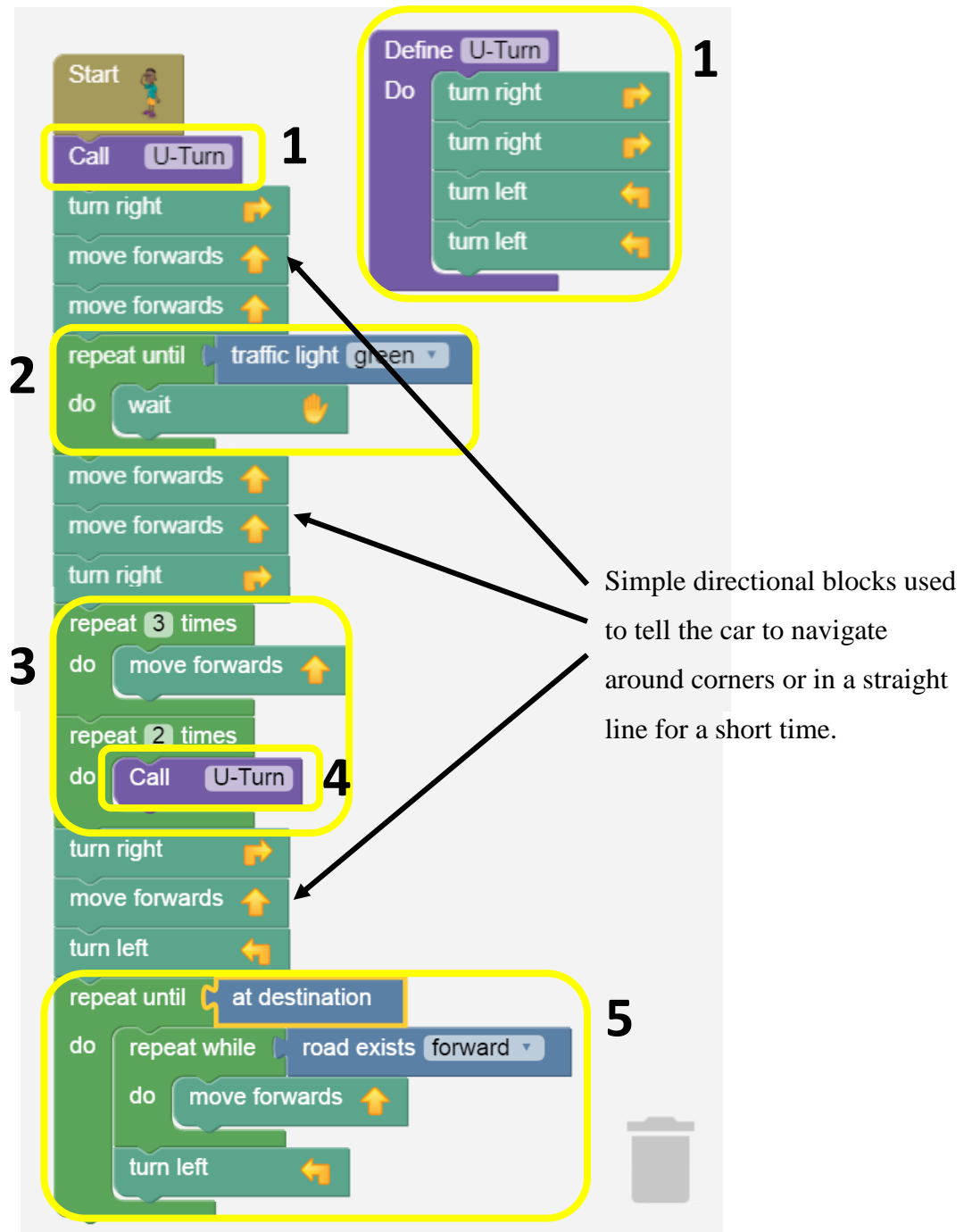
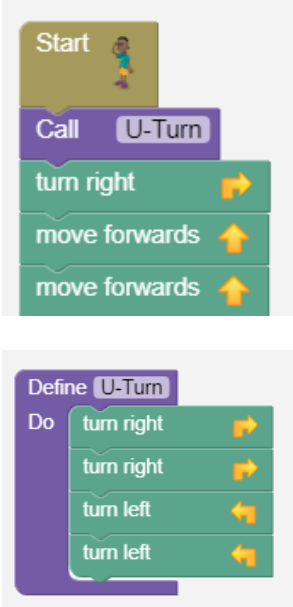
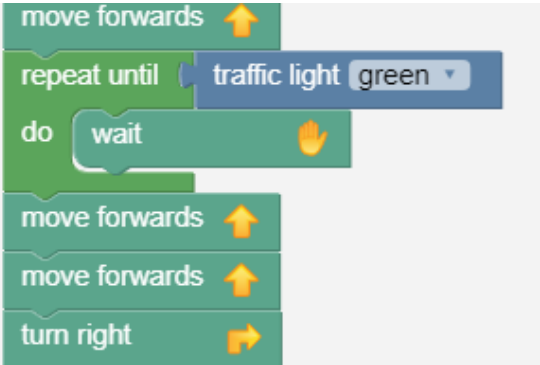
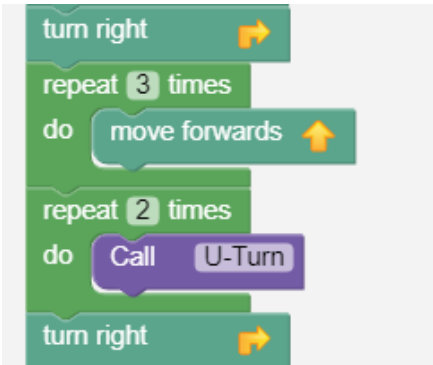

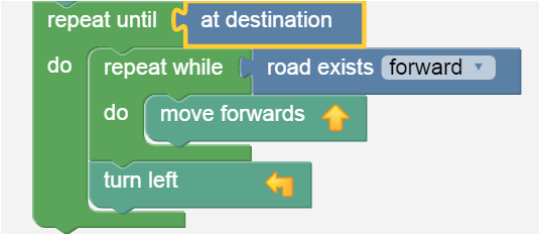


Figure 5 - Rapid Router Code

## Explanation of Code Components

Code Component	#	Explanation
	1	<p>Car had to navigate a U-turn like curve in the road, a sequence which also appears later in the code.</p> <p>“call” block allows the sequence within the “define” block for car to turn around without detailing the sequence again.</p>
	2	<p>Car reached a traffic light.</p> <p>“repeat until” block to “traffic light green” block the car continues to repeat the listed inside – “wait” – until the traffic light is green.</p>
	3	<p>Car was required to travel in the same way for a number of steps.</p> <p>“repeat” block excess direction see “move forward”</p> <p>Alternative could have been used “repeat 2 times” block a and the same amount</p>

	4	<p>Car was required to travel once again in a U-turn like c</p> <p>“call” block pattern that repeated a ously – this saves unnec e.</p>
	5	<p>Car was req left-turning spiral for the</p> <p>“repeat until destination” addition to “at so that the car would repea directions listed inside d the destination.</p> <p>For the direc repeating block – “rep sed in addition to “ d” connecting block as this ill only move forward if it ill road in front of it. T following this combination road is not ahead then the car will turn left, thus travelling in a spiral until the destination has been reached.</p>

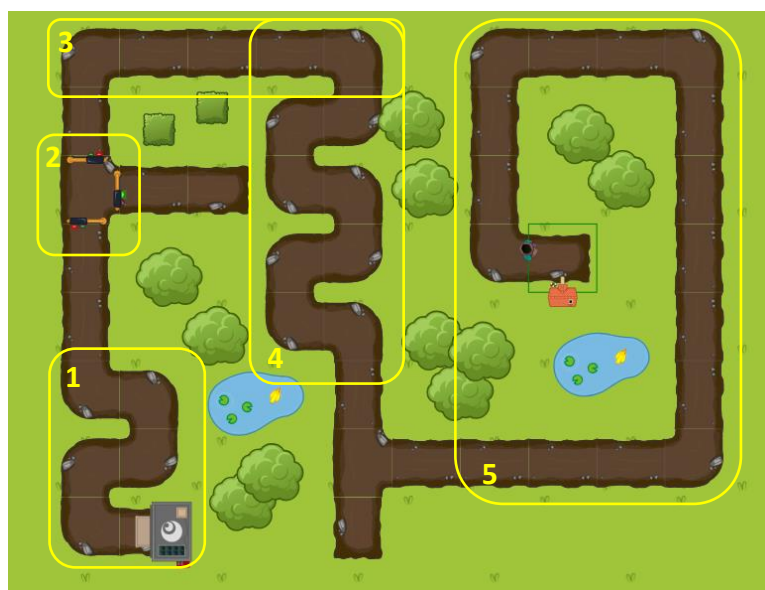


Figure 4 - Annotated Map