Arduino Bootcamp for Teachers

Intake: August 2018

u	Task	Description
ratio	1	Review video "How to get the most out of this bootcamp"
at	2	Gather the tools and parts you will need
a _	3	Enrol to the course on txplore.com to gain access to the content
Q.	4	Book your group calls in your calendar
Prepai	5	Learn how to submit work for evaluation or feedback
	6	Introduce your self to the class and instructors in Facebook Messenger

d l	1	Daily immersion and completion of objectives						
	2	Alternating activities: First day "Learn & Test", Second day "Do"						
	3	Day 1: Learn - Test						
re re	4 Day 2: Do							
) <u>3</u>	5	Twice-weekly group bootcamp Zoom meetings						
Bootcamp features	6	Online support available via Facebook Messenger (responsive within minutes during NSW working hours)						
		Fully documented via video and downloadable PDF notes. Notes are licenses for one						
	7	teacher to use in their classroom.						





Day	, WI	'k	Date	Weekday	Activity type	Estimated workload (m)	Title	Activity 1	Activity 2	Activity 3	Activity 4	Activity 5	Activity 6	Quiz	Mini- project
1	1	l	6-Aug-18	Monday	Learn-Test	90	Introducing the	Learn about Arduino's pins, power and clock		How to use the digital output pins		How to use the analog output pins	How to use the analog input pins	Yes	No
2	1	l	7-Aug-18	Tuesday	Do, Reflect	60	LBD 1 - Introducing the Arduino	-		-	-	-	-	No	Yes
3	1	L	8-Aug-18	Wednesday	Learn-Test	90	and your first	Introduction to	an Arduino nrogram (a k a	window of the	How to upload a sketch to your Arduino (Windows, Mac)	-	-	Yes	No
4	1	L	9-Aug-18	Thursday	Do, Reflect	45	The Arduino IDE and your first program	-	-	-	-	-	-	No	Yes
5	1	l ;	10-Aug-18	Friday	Learn-Test	1	Arduino	An introduction to Arduino programming	The basic parts of an Arduino sketch	Creating your own functions	Creating functions with parameters that can return a value	Variables and	Constants		

6		11-Διισ-18	Saturday	Rest and cato	hun					<u> </u>			······································	
7		12-Aug-18		Rest and cate										
		/ 105 10	341144			Introduction to								
8	2	13-Aug-18	Monday	Do, Reflect	60	Arduino	-	-	_	_	_	-	No	Yes
	_	20 7.06 20	,	20, 11011000		programming								. 65
						programming		The "while"	The "for"	The "switch"				
9	2	14-Aug-18	Tuesday	Learn-Test	75	Control structures	The "if" statement	statement	statement	statement	-	-	Yes	No
10	,	1E Aug 10	Modposday	Do, Reflect	60	Control atmostrate		Statement	statement	statement			No	Vos
10		***************************************	~~~~~~	;	60	Control structures Digital inputs and	- How to control an	- How to road a	}- }	}-	-	-	No	Yes
11	2	16-Aug-18	Thursday	Learn-Test	45	, -		<u>}</u> .	-	-	-	-	Yes	No
						outputs Digital inputs and	LED	button						
12	2	17-Aug-18	Friday	Do, Reflect	90	outputs	-	-	-	-	-	-	No	Yes
13		18-Aug-18	Saturday	Rest and cato	hup	жими								
14		19-Aug-18	Sunday	Rest and cato	hup									
15	2	20-Aug-18	Monday	Learn-Test	45	Analog inputs and	How to read a	How to make an			_	_	Yes	No
15	3	20-Aug-10	ivioriday	Learn-rest	43	outputs	potentiometer	LED fade	Ī		-	-	163	INO
16	2	21-Aug-18	Tuesday	Do, Reflect	90	Analog inputs and	_	_	_	_	_	_	No	Yes
10	3	21-Aug-10	Tuesuay	Do, Reffect	90	outputs	-	-		[-	-	INO	163
									How to create					
17	3	22-Aug-18	Wednesday	Learn	60	Color LEDs	Ü	How to wire the	colors with the	-	-	-	No	No
-		J	•				color RGB LED	RGB LED	RGB LED				İ	
18	3	23-Aug-18	Thursday	Do, Reflect	60	Color LEDs	-	-	-	-	-	-	No	Yes
						Color LEDs and	How to use a	How to use the						
19	3	24-Aug-18	Friday	Learn-Test	60	§	library to control	Arduino language	-	-	-	-	Yes	No
						libraries	an RGB LED	documentation						
20		25-Aug-18		Rest and cato										
21		26-Aug-18	Sunday	Rest and cato	hup									
22	1	27-Aug-18	Monday	Do, Reflect	60	Color LEDs and	_	_			_	_	No	Yes
	7	21-Mug-10	ivioliuay	Do, Nellect	UU	libraries							IVU	162
								What is a	How to select the					
23	4	28-Aug-18	Tuesday	Learn-Test	60	The light sensor	Introduction to	photoresistor and	appropriate fixed	_	_	_	Yes	No
23	7	20-Mug-10	iucsuay	Learn-rest	00	THE HIGHT SCHOOL	the light sensor	how to wire it	resistor for a				163	NO
								now to wire it	photoresistor					
24				Do, Reflect	60	The light sensor	-	-	-	-	-	-	No	Yes
25		30-Aug-18		Do, Reflect	120	Project: Cylon							No	Yes
26	4	31-Aug-18	Friday	Do, Reflect		Lights							140	103
27		1-Sep-18		Rest and cato										
28		2-Sep-18		Rest and cato	hup									
29		3-Sep-18	Monday	Do. Reflect	120	Project: Electronic							No	Yes
30	5	4-Sep-18	Tuesday	Do, Heriett	120	Dice							140	103