11 VCE Computing

2018 Orientation and Holiday homework

NHS

December 2017

Materials Needed

- Notebook and binder for class notes
- Pencil and rubber (for written work)
- Pens, coloured pens (for notes and marking)
- **Laptop (Windows, Mac, or Linux)**, with power cord

Classroom Expectations

1) Always do your best and allow others to do their best
2) Arrive to class on time with all of the required materials – notebook, fully charged laptop, pencil case
3) Participate in the lesson by asking/answering questions and completing notes
4) Complete at least 80% of the assigned work – you will get out what you put in
5) Seek support to complete assigned work if needed (Math support Thursday after school in B-Block)

Topics:

Description	Weeks
Intro to Coding	2
Web Fundamentals	4
Organization and Resources	2
Networks	3
Data Collection and Visualization	4
Programming	6
Data Analysis	5
Databases	5

Each Unit Assessment will consist of:

Common Assessment Tasks:

- Examination 1 (Technology free, no notes)
  Standard Short Answer questions (60 minutes)
- Examination 2 (Technology free, using reference material)
  Multiple Choice and Analysis Questions (90 minutes)
- SACs (School Assessed Coursework) – three per semester
- Tests, class problems, homework, summary sheets

and

A unit result – **'S'** or **'N'**

- In order to receive an 'S' **ALL** School Assessed Coursework will need to satisfy all outcomes as specified in the study design.
- If you **DO NOT** achieve an S on a SAC, then you will need to complete one of the following to receive an 'S': complete the task, repeat a similar task, or complete additional coursework.
- **THIS** will be done in your own time.
- A student who receives an 'N' and/or achieves less than 50% for his/her EXAMS will not be guaranteed a place in Year 12 Informatics or Software Development.

Homework

All students are expected to complete set homework. This may consist of:

- Finishing work that has not been completed in class
- Revising for class tests
- Preparing reference material
- Completing additional set homework assignments.

You should spend **AT LEAST 3 hours a week** on this homework!!

Year 11 VCE Computing Course Outline 2018

Week No.	Term 1	Term 2	Term 3	Term 4
1	Tues Jan 30 **1: Intro to Coding**	Mon Apr 16 **4: Networks**	Mon Jul 16 **6: Programming**	Mon Oct 08 **8: Databases**
2	Mon Feb 05 **1: Intro to Coding**	Mon Apr 23 **4: Networks** **SAC 2: Design a Network**	Mon Jul 23 **6: Programming**	Mon Oct 15 **8: Databases**
3	Mon Feb 12 **2: Web Fundamentals**	Mon Apr 30 **5: Data Collection and Visualization**	Mon Jul 30 **6: Programming** **SAC 4: Independent App**	Mon Oct 22 **8: Databases** **SAC 6: Databases**
4	Mon Feb 19 **2: Web Fundamentals**	Mon May 07 **5: Data Collection and Visualization**	Mon Aug 06 **7: Data Analysis**	Mon Oct 29 **Semester 2 Exam Revision**
5	Mon Feb 26 **2: Web Fundamentals**	Mon May 14 **5: Data Collection and Visualization**	Mon Aug 13 **7: Data Analysis**	Mon Nov 05 **Semester 2 Exam Revision**
6	Mon Mar 05 **2: Web Fundamentals** **SAC 1: Issue-Based Website**	Mon May 21 **5: Data Collection and Visualization** **SAC 3: Survey and Results**	Mon Aug 20 **7: Data Analysis**	Mon Nov 12 **Semester 2 Exams**
7	Tues Mar 12 **3: Organization and Resources**	Mon May 28 **Semester 1 Exam Revision**	Mon Aug 27 **7: Data Analysis**	Mon Nov 19
8	Mon Mar 19 **3: Organization and Resources**	Mon Jun 04 **Semester 1 Examinations**	Mon Sep 03 **7: Data Analysis** **SAC 5: Data Analysis**	Mon Nov 26
9	Mon Mar 26 **4: Networks** **End of Term**	Tues Jun 11 **6: Programming**	Mon Sep 10 **8: Databases**	Mon Dec 03
10	Mon Apr 02 **School Autumn Vacation**	Mon Jun 18 **6: Programming**	Mon Sep 17 **8: Databases** **End of Term**	Mon Dec 10
11	Mon Apr 10 **School Autumn Vacation**	Mon Jun 25 **6: Programming** **End of Term**	Mon Sep 24 **School Spring Vacation**	Mon Dec 17 **End of Term**
12		Mon Jul 02 and Mon Jul 09 **School Winter Vacation**	Mon Oct 01 **School Spring Vacation**	

Holiday Homework

11 VCE Computing will cover a range of topics centred on databases, data analysis, and networks, but one theme throughout will be the idea of web programming. To prepare, your holiday homework is to learn the basics of HTML and web programming.

Homework

Codecademy is an excellent resource for beginners to learn how to code. Your homework over the holidays is to complete the Codecademy HTML course, which should take around 3 hours, and will help you hit the ground running next year:

Topic	Resource	Done
HTML	https://www.codecademy.com/learn/learn-html	

Extension

If you have completed the HTML course and want to keep learning, try any of the courses below. Or open a text editor (Notepad/TextEdit), save a .html file, and create your very own projects!

Topic	Resource	Done
CSS	https://www.codecademy.com/learn/learn-css	
JavaScript	https://www.codecademy.com/learn/introduction-to-javascript - first three topics (Intro, Control Flow, and Functions)	
Make a Website	https://www.codecademy.com/learn/make-a-website	
Web Projects	https://www.codecademy.com/en/tracks/projects	
More Online Learning	https://groklearning.com/course/intro-html-css-1/	

Resources

A lot of programming is about knowing where to look for help. These are all great resources:

Name	Resource
Google	https://www.google.com.au/
StackOverflow	https://stackoverflow.com/
W3Schools	https://www.w3schools.com/

Expectations

When you return to classes in 2018, you should have completed **the HTML Codecademy course**. You will need to show your online progress by logging in to your account.