

CompSci Unit 4 – Computer Systems

What is **hardware**? (3.4.1)

.....

What is **software**? (3.4.1)

.....

List the **four** types of **logic gate**. Draw the gate diagrams and notation symbols for each (3.4.2)

1.

2.

3.

4.

What is **application software**? Give two examples. (3.4.3)

.....

Examples

What is **system software**? Give two examples (3.4.3)

.....

Examples

What is **utility software**? Give two examples (3.4.3)

.....

Examples

List the **five** jobs of an **operating system** (3.4.3)

1.

2.

3.

4.

5.

What is a **low-level programming language**? Give the two examples of code types (3.4.4)

.....
.....

What is a **high-level programming language**? Give one example (3.4.4)

.....
.....

List the **three** types of **program translator**. What are the differences between them? (3.4.4)

1.
2.
3.

What is the **CPU**? (3.4.5)

.....

List the **five** parts of the CPU in the von Neumann architecture. What does each do? (3.4.5)

1.
2.
3.
4.
5.

List the **three** ways to increase CPU performance (3.4.5)

1.
2.
3.

What is **main memory**? (3.4.5)

.....

How does **main memory** work? What is it used for? (3.4.5)

.....

.....

List the **four** types of memory. What does each do and where are they located? (3.4.5)

1. R.....

2. C.....

3. R.....

4. R.....

What is **secondary storage**? (3.4.5)

.....

How is secondary storage different from main memory? (3.4.5)

.....

List the **three** types of secondary storage. How does each work? (3.4.5)

1.

.....

2.

.....

3.

.....

What is an **embedded system**? Give an example (3.4.5)

.....

.....

Type of storage	How it works (key bullet points)	Pros	Cons
O	<ul style="list-style-type: none">••••••		
M	<ul style="list-style-type: none">••••••		
S	<ul style="list-style-type: none">••••••		