

MINISTRY OF EDUCATION, HERITAGE & ARTS

YEAR 11 COMPUTER STUDIES – Worksheet 2 - 2021

Instruction: Use your activity book to write the answers only.

Strand 1 – Computers and Applications

Question 1

Environmental Conditions/Simple Hardware Faults & Power Problems

Important Terms – Use the words in this list to fill in the blanks in the paragraph below

UPS	Cold Start	Blackout
Power Spike	Heat Sink	Warm Start
Power Surge	Brownout	Simple Hardware Faults

Problems with electricity will always have an effect on our computers – sometimes a very damaging one. When we lose power it's called a _____ 1 _____. This will cause our machines to turn off unexpectedly, before we can finish what we're doing. When the power gets weak, but doesn't turn completely off a _____ 2 _____ has occurred. Our lights will only dim, but large electronics like TVs and computers will usually turn off. One way to protect our machines from turning off in these situations is to use a _____ 3 _____, which supplies our computer with battery power so we can save our work and shut down properly.

Sometimes too much power will flow through the lines and hurt the internal components of a computer. If there's a slight increase over a long period of time it's known as a _____ 4 _____, but if lightning strikes and there's a sharp, very high jolt of electricity we call it a _____ 5 _____. Those kinds of power increases can overheat the computer and can even cause components to melt. Our CPU's are always equipped with a _____ 6 _____ to help draw away heat from the processor and keep the CPU cool.

When your computer is powered off and you turn it on, you've given it a _____ 7 _____. A _____ 8 _____ is when you've restarted the machine. If you're trying to start your computer, but it won't turn on and you're sure that there hasn't been a blackout, check that the power cables are not loose or disconnected. These kinds of _____ 9 _____ are common problems that you can easily fix yourself.

(9 marks)

Question 2

After collecting data for 4 months there is a lot of data to enter. One of the computer operators complains of a sore back and hands after 3 days of data entry.

- Describe what can be causing the sore back. (2 marks)
- Explain **one** way to avoid a sore back when using a computer. (2 marks)
- State **one** condition that can give computer operators sore hands.(2 marks)
- Explain **one** way to avoid sore hands when using a computer. (2 marks)