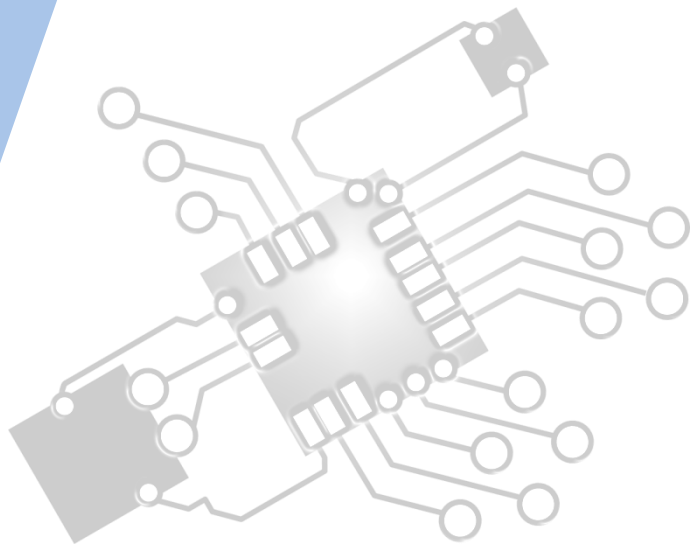
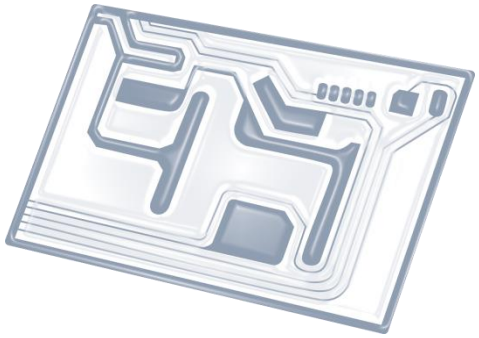
System backup

IB Computer Science



Content developed by
Dartford Grammar School
Computer Science Department

HL Topics 1-7, D1-4



1: System design

2: Computer Organisation

3: Networks

4: Computational thinking

5: Abstract data structures

6: Resource management

7: Control

D: OOP

HL & SL 1.1 Overview

Planning and system installation

1.1.1 Identify the context for which a new system is planned.

1.1.2 Describe the need for change management

1.1.3 Outline compatibility issues resulting from situations including legacy systems or business mergers.

1.1.4 Compare the implementation of systems using a client's hardware with hosting systems remotely

1.1.5 Evaluate alternative installation processes

1.1.6 Discuss problems that may arise as a part of data migration

1.1.7 Suggest various types of testing

User focus

1.1.8 Describe the importance of user documentation

1.1.9 Evaluate different methods of providing user documentation

1.1.10 Evaluate different methods of delivering user training

System backup

1.1.11 Identify a range of causes of data loss

1.1.12 Outline the consequences of data loss in a specified situation

1.1.13 Describe a range of methods that can be used to prevent data loss

Software deployment

1.1.14 Describe strategies for managing releases and updates

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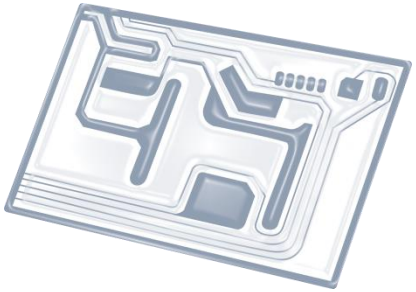
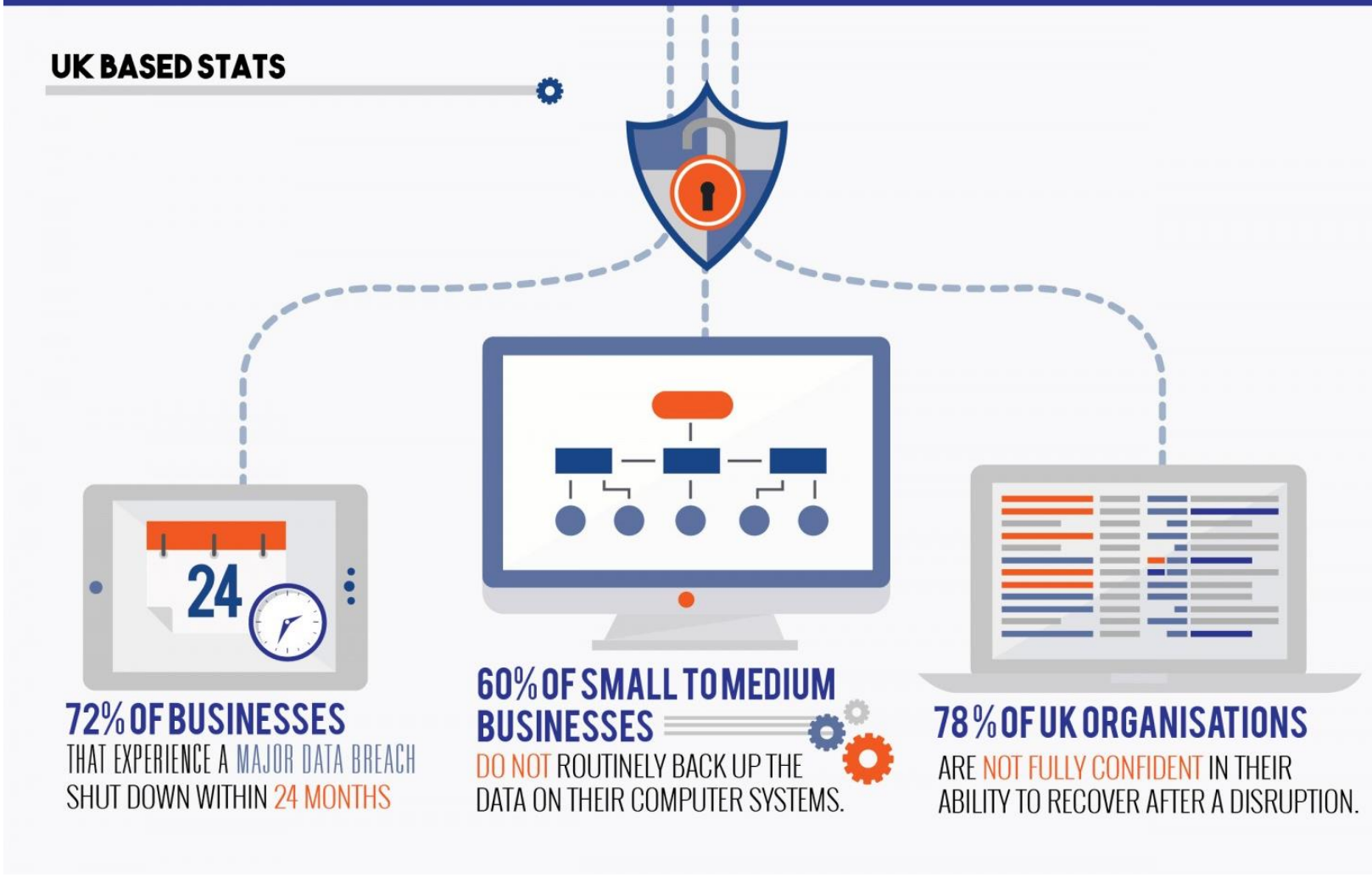
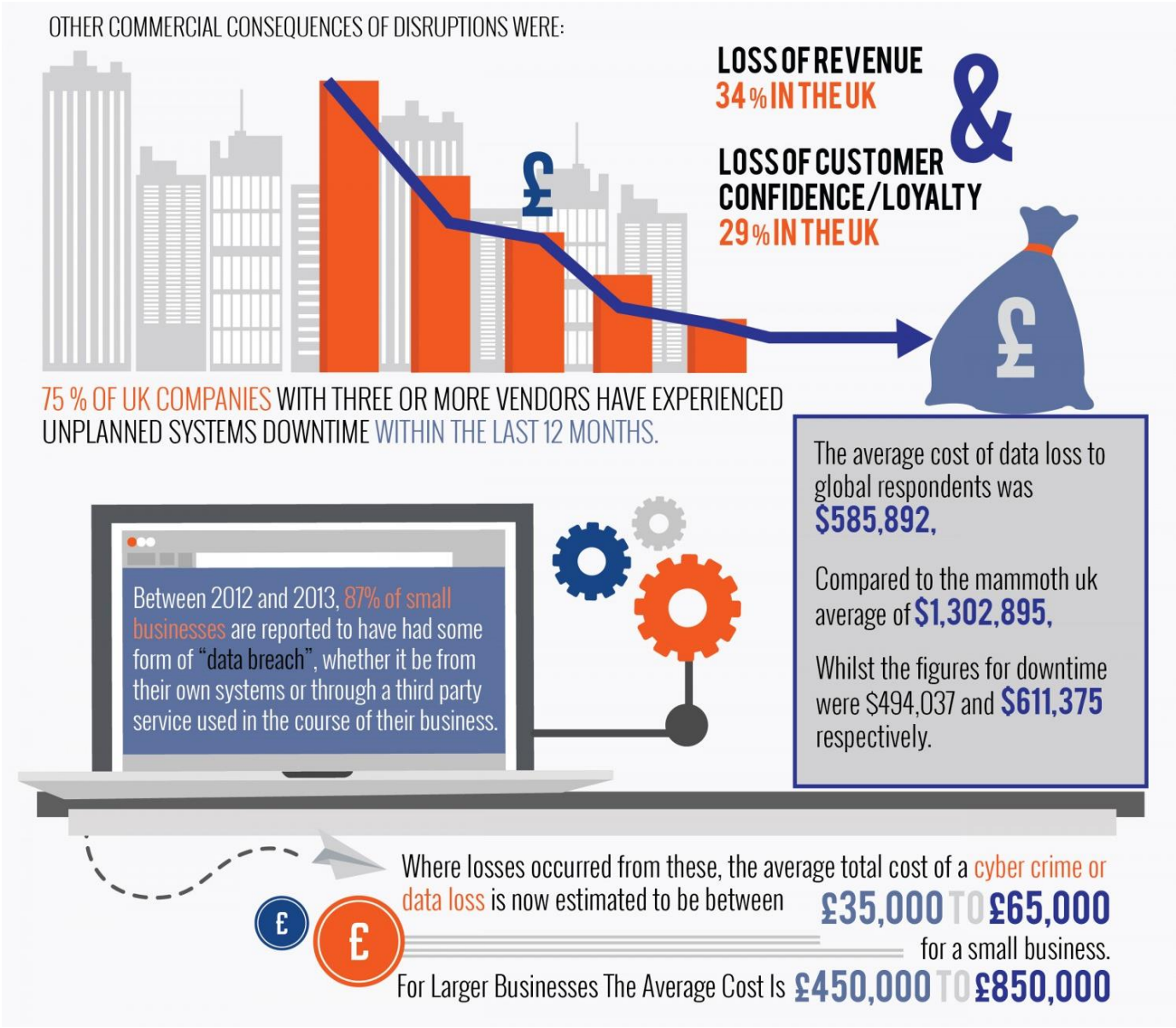


Topic 1.1.12

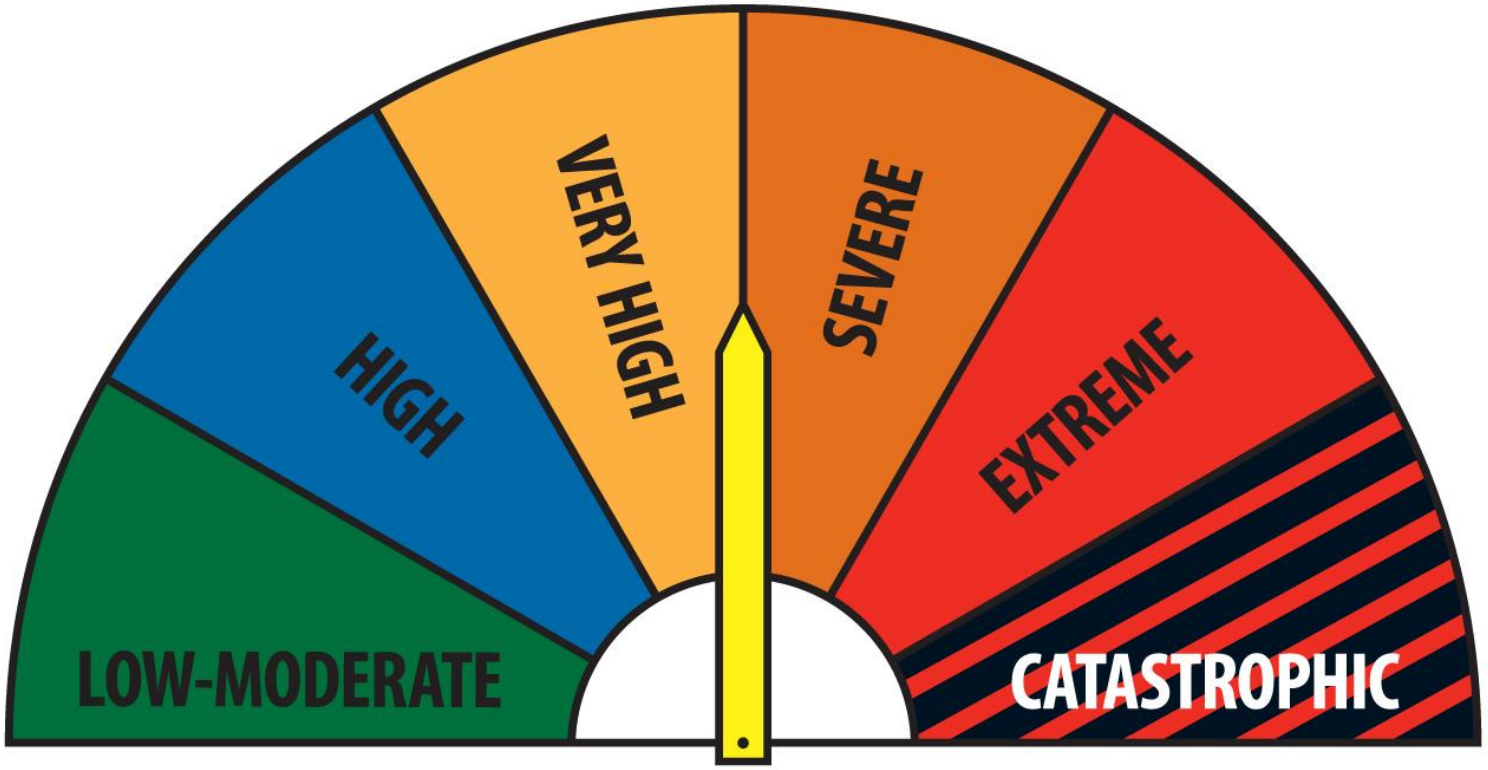
Outline the **consequences** of **data loss** in a specified situation

THE TRUE COST OF DATA LOSS




OTHER COMMERCIAL CONSEQUENCES OF DISRUPTIONS WERE:
LOSS OF REVENUE
34% IN THE UK
&
LOSS OF CUSTOMER CONFIDENCE/LOYALTY
29% IN THE UK
75 % OF UK COMPANIES WITH THREE OR MORE VENDORS HAVE EXPERIENCED UNPLANNED SYSTEMS DOWNTIME WITHIN THE LAST 12 MONTHS.
Between 2012 and 2013, 87% of small businesses are reported to have had some form of "data breach", whether it be from their own systems or through a third party service used in the course of their business.
The average cost of data loss to global respondents was $585,892,
Compared to the mammoth uk average of $1,302,895,
Whilst the figures for downtime were $494,037 and $611,375 respectively.
Where losses occurred from these, the average total cost of a cyber crime or data loss is now estimated to be between £35,000 TO £65,000 for a small business.
For Larger Businesses The Average Cost Is £450,000 TO £850,000

Consequences vary in severity



Depends on the situation…

- You can be asked to discuss the consequences of data loss for a variety of situations.
- Things to keep in mind when discussing this:
  - *Can the data be replaced?*
  - *How easy is the data to replace?*
  - *Who will be affected by the data loss?*
  - *Are there financial implications to the data loss?*
  - *Are the 'life-and-death' consequences to the loss?*
  - *Who is responsible for data recovery?*

Examples

- Loss of a hotel reservation
- Loss of a patient's medical record
- Loss of a financial transaction
- Loss of a search engine request
- Loss of a student's test score
- Loss of a password

What would be the consequence?