

## Unit 2.6 Data Representation

### Lesson 5 - Compression

## MCQS

The numbers after the question are an approximate estimation of relative difficulty, broadly based around the new GCSE Numbering System. Please note that these were produced before final guidance was released regarding levels of difficulty and as such should be used as a rough guide only.

<b>Question 1: What is compression? (1-4)</b>	✓
To convert one file to another	
To reduce the size of data to save space	
To minimize the time taken for a file to be downloaded	
To compress something by pressing it very hard	
<b>Question 2: What does Lossy Compression do to files? (4-6)</b>	✓
Increases the file size and keeps the same quality	
Eliminates no information at all	
Decreases the file size and keeps the same quality	
Eliminates unnecessary information in a file to reduce file size	
<b>Question 3: What is Lossless Compression? (4-6)</b>	✓
No information is lost but file size is increased	
There is no loss in information at all after compression	
Files which have the exact same data after compression	
Compression that involves an algorithm	
<b>Question 4: What type of compression does the ZIP format use? (7-9)</b>	✓
Lossy	
Lossless	
<b>Question 5: What type of compression would you use to compress a video? (4-6)</b>	✓
Lossy	
Lossless	
<b>Question 6: What type of compression would you use to compress a text file (4-6)</b>	✓
Lossy	
Lossless	
<b>Question 7: When Lossy compression is used data is lost (1-4)</b>	✓
Lossy	
Lossless	
<b>Question 8: Which of the following are not in a compressed format? (7-9)</b>	✓
JPEG	
MPEG	
Bitmap	
MP3	

## MCQS

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**Question 9: Uncompressed audio and video files require less memory than compressed files. (1-4)**

✓

True	
False	

**Question 10: JPEG Stands for (4-6)**

✓

Joint Photo Exempted Grade	
Joint Photographic Experts Group	
Junior Photographic Export Group	

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## MCQS ANSWERS

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Eliminates no information at all	
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Eliminates unnecessary information in a file to reduce file size	✓
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There is no loss in information at all after compression	✓
Files which have the exact same data after compression	
Compression that involves an algorithm	
<b>Question 4: What type of compression does the ZIP format use? (7-9)</b>	✓
Lossy	
Lossless	✓
<b>Question 5: What type of compression would you use to compress a video? (4-6)</b>	✓
Lossy	✓
Lossless	
<b>Question 6: What type of compression would you use to compress a text file (4-6)</b>	✓
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Lossless	✓
<b>Question 7: When Lossy compression is used data is lost (1-4)</b>	✓
Lossy	✓
Lossless	
<b>Question 8: Which of the following are not in a compressed format? (7-9)</b>	✓
JPEG	
MPEG	
Bitmap	✓
MP3	

**MCQS ANSWERS**

<b>Question 9: Uncompressed audio and video files require less memory than compressed files. (1-4)</b>	✓
True	
False	✓
<b>Question 10: JPEG Stands for (4-6)</b>	✓
Joint Photo Exempted Grade	
Joint Photographic Experts Group	✓
Junior Photographic Export Group	

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