

# APPENDIX I

## RESULTS OF THE STATISTICAL COMPARISON BETWEEN THE PART 2 AND PART 3 DOCUMENTS



# 1. SITE RECORDS

## 1.1 Comprehending site records

Part 2: Comprehending site records	Part 3: Comprehending site records	
	Able	Unable
Able	6	3
Unable	0	0

### Test Statistics(b)

	Part2: Comprehending site records & Part3: Comprehending site records
N	9
Exact Sig. (2-tailed)	.250(a)

a Binomial distribution used.

b McNemar Test

## 1.2 Completing site records – descriptions

Part 2: Completing site records – descriptions	Part 3: Completing site records – descriptions	
	Able	Unable
Able	6	2
Unable	0	0

1 participant did not attempt this task

### Test Statistics(b)

	Part2: Completing site records - descriptions & Part3: Completing site records - descriptions
N	8
Exact Sig. (2-tailed)	.500(a)

a Binomial distribution used.

b McNemar Test

### 1.3 Completing site records – numerical data

Part 2: Completing site records – numerical data	Part 3: Completing site records – numerical data	
	Able	Unable
Able	7	2
Unable	0	0

#### Test Statistics(b)

	Part2: Completing site records - numerical data & Part3: Completing site records - numerical data
N	9
Exact Sig. (2-tailed)	.500(a)

a Binomial distribution used.

b McNemar Test

### 1.4 Read and understand maps and plans accurately

Part 2: Read and understand maps and plans accurately	Part 3: Read and understand maps and plans accurately	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Reading and understanding maps and plans accurately

## 2. EXCAVATION

### 2.1 Cutting turf

Part 2: Cutting turf	Part 3: Cutting turf	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Cutting turf

### 2.2 Lifting turf

Part 2: Lifting turf	Part 3: Lifting turf	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Lifting turf

### 2.3 Excavation - Pick axe

Part 2: Excavation - Pick axe	Part 3: Excavation - Pick axe	
	Able	Unable
Able	4	0
Unable	0	0

5 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Excavating with a pick axe

### 2.4 Excavation - Mattock

Part 2: Excavation - Mattock	Part 3: Excavation - Mattock	
	Able	Unable
Able	4	0
Unable	0	0

5 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Excavating with a mattock

## 2.5 Excavation – Draw hoe

Part 2: Excavation – Draw hoe	Part 3: Excavation – Draw hoe	
	Able	Unable
Able	4	0
Unable	0	0

5 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Excavating with a draw hoe

## 2.6 Excavation - Trowelling

Part 2: Excavation - Trowelling	Part 3: Excavation - Trowelling	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Excavating with a trowel

## 2.7 Excavation - Brushing

Part 2: Excavation - Brushing	Part 3: Excavation - Brushing	
	Able	Unable
Able	6	0
Unable	0	0

3 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Excavating with a brush

## 2.8 Excavation - Secateurs

Part 2: Excavation - Secateurs	Part 3: Excavation - Secateurs	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Excavating with a secateur

## 2.9 Disposal of waste material – on a spade

Part 2: Disposal of waste material – on a spade	Part 3: Disposal of waste material – on a spade	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Disposing waste material on a spade

### 2.10 Disposal of waste material – by hand

Part 2: Disposal of waste material – by hand	Part 3: Disposal of waste material – by hand	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Disposing waste material by hand

### 2.11 Disposal of waste material – in a wheelbarrow

Part 2: Disposal of waste material – in a wheelbarrow	Part 3: Disposal of waste material – in a wheelbarrow	
	Able	Unable
Able	6	3
Unable	0	0

#### Test Statistics(b)

	Part2: Disposal of waste material - in a wheelbarrow & Part3: Disposal of waste material - in a wheelbarrow
N	9
Exact Sig. (2-tailed)	.250(a)

a Binomial distribution used.

b McNemar Test

### 2.12 Disposal of waste material – in a bucket

Part 2: Disposal of waste material – in a bucket	Part 3: Disposal of waste material – in a bucket	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Disposing waste material in a bucket

### 2.13 Disposal of waste material – empty wheelbarrow

Part 2: Disposal of waste material – empty wheelbarrow	Part 3: Disposal of waste material – empty wheelbarrow	
	Able	Unable
Able	6	3
Unable	0	0

#### Test Statistics(b)

	Part2: Disposal of waste material - empty wheelbarrow & Part3: Disposal of waste material - empty wheelbarrow
N	9
Exact Sig. (2-tailed)	.250(a)

a Binomial distribution used.

b McNemar Test

### 2.14 Disposal of waste material– empty bucket

Part 2: Disposal of waste material – empty bucket	Part 3: Disposal of waste material – empty bucket	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Disposing waste material – emptying bucket

### 2.15 Dry sieving

Part 2: Dry sieving	Part 3: Dry sieving	
	Able	Unable
Able	2	0
Unable	0	0

7 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Dry sieving although there is only 2 participants who gave a response



## 2.16 Use a sprayer

Part 2: Use a sprayer	Part 3: Use a sprayer	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Using a sprayer although there are only 3 participants who gave a response

## 2.17 Discern stratigraphy - tactile

Part 2: Discern stratigraphy - tactile	Part 3: Discern stratigraphy - tactile	
	Able	Unable
Able	4	5
Unable	0	0

### Test Statistics(b)

	Part2: Discern stratigraphy - tactile & Part3: Discern stratigraphy - tactile
N	9
Exact Sig. (2-tailed)	.063(a)

a Binomial distribution used.

b McNemar Test

## 2.18 Discern stratigraphy - vision

Part 2: Discern stratigraphy - vision	Part 3: Discern stratigraphy - vision	
	Able	Unable
Able	8	1
Unable	0	0

### Test Statistics(b)

	Part2: Discern stratigraphy - vision & Part3: Discern stratigraphy - vision
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

## 2.19 Discern stratigraphy – colour

Part 2: Discern stratigraphy – colour	Part 3: Discern stratigraphy – colour	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Discerning stratigraphy – colour

## 2.20 Discern stratigraphy - texture

Part 2: Discern stratigraphy - texture	Part 3: Discern stratigraphy - texture	
	Able	Unable
Able	6	3
Unable	0	0

### Test Statistics(b)

	Part2: Discern stratigraphy - texture & Part3: Discern stratigraphy - texture
N	9
Exact Sig. (2-tailed)	.250(a)

a Binomial distribution used.

b McNemar Test

### 3. PLANNING

#### 3.1 Lay a tape measure

Part 2: Lay a tape measure	Part 3: Lay a tape measure	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Laying a tape measure

#### 3.2 Read a tape measure accurately

Part 2: Read a tape measure accurately	Part 3: Read a tape measure accurately	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Reading a tape measure accurately

#### 3.3 See area to be planned

Part 2: See area to be planned	Part 3: See area to be planned	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Seeing area to be planned

#### 3.4 Drawing – ability

Part 2: Drawing - ability	Part 3: Drawing - ability	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Drawing ability

### 3.5 Drawing – use graph paper

Part 2: Drawing – use graph paper	Part 3: Drawing – use graph paper	
	Able	Unable
Able	7	1
Unable	0	0

1 participant did not attempt this task

#### Test Statistics(b)

	Part2: Drawing - use graph paper & Part3: Drawing - use graph paper
N	8
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

## 4. PROCESSING OF ARTEFACTS

### 4.1 Handling finds – small-sized

Part 2: Handling finds – small-sized	Part 3: Handling finds – small-sized	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Handling finds – small-sized

### 4.2 Handling finds – medium/large-sized

Part 2: Handling finds – medium/large-sized	Part 3: Handling finds – medium/large-sized	
	Able	Unable
Able	6	0
Unable	0	0

3 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Handling finds – medium/large-sized

### 4.3 Washing finds – small-sized

Part 2: Washing finds – small-sized	Part 3: Washing finds – small-sized	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Washing finds – small-sized although there are only 3 participants who gave a response

### 4.4 Washing finds – medium-sized

Part 2: Washing finds – medium-sized	Part 3: Washing finds – medium-sized	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Washing finds – medium-sized although there is only 3 participants who gave a response

#### 4.5 Washing finds – large-sized

Part 2: Washing finds – large-sized	Part 3: Washing finds – large-sized	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Washing finds – large-sized although there are only 3 participants who gave a response

#### 4.6 Sorting finds – small-sized

Part 2: Sorting finds – small-sized	Part 3: Sorting finds – small-sized	
	Able	Unable
Able	5	0
Unable	0	0

4 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Sorting finds – small-sized although there is only 5 participants who gave a response

#### 4.7 Sorting finds – medium-sized

Part 2: Sorting finds – medium-sized	Part 3: Sorting finds – medium-sized	
	Able	Unable
Able	4	0
Unable	0	0

5 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Sorting finds – medium-sized although there are only 4 participants who gave a response

#### 4.8 Sorting finds – large-sized

Part 2: Sorting finds – large-sized	Part 3: Sorting finds – large-sized	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Sorting finds – large-sized although there are only 3 participants who gave a response

#### 4.9 Identifying finds – tactile

Part 2: Identifying finds – tactile	Part 3: Identifying finds – tactile	
	Able	Unable
Able	7	1
Unable	0	0

1 participant did not attempt this task

#### Test Statistics(b)

	Part2: Identifying finds - tactile & Part3: Identifying finds - tactile
N	8
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

#### 4.10 Identifying finds – colour

Part 2: Identifying finds – colour	Part 3: Identifying finds – colour	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Identifying finds – colour

#### 4.11 Identifying finds – texture

Part 2: Identifying finds – texture	Part 3: Identifying finds – texture	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Identifying finds – texture

#### 4.12 Identifying finds – vision

Part 2: Identifying finds – vision	Part 3: Identifying finds – vision	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Identifying finds – vision

#### 4.13 Marking finds

Part 2: Marking finds	Part 3: Marking finds	
	Able	Unable
Able	5	0
Unable	0	0

4 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Marking finds although there are only 5 participants who gave a response

### 5. ENVIRONMENTAL SAMPLING

#### 5.1 Take bulk samples

Part 2: Take bulk samples	Part 3: Take bulk samples	
	Able	Unable
Able	1	0
Unable	0	0

8 participants did not attempt this task

Only 1 participant gave an answer to taking bulk samples

#### 5.2 Wet sieving

Part 2: Wet sieving	Part 3: Wet sieving	
	Able	Unable
Able	2	0
Unable	0	0

7 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in proceeding to wet sieving although there are only 2 participants who gave a response

#### 5.3 Sorting samples – small-sized materiel

Part 2: Sorting samples – small-sized materiel	Part 3: Sorting samples – small-sized materiel	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Sorting samples – small-sized materiel although there are only 3 participants who gave a response



#### 5.4 Sorting samples – medium-sized materiel

Part 2: Sorting samples – medium-sized materiel	Part 3: Sorting samples – medium-sized materiel	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Sorting samples – medium-sized materiel although there are only 3 participants who gave a response

#### 5.5 Sorting samples – large-sized materiel

Part 2: Sorting samples – large-sized materiel	Part 3: Sorting samples – large-sized materiel	
	Able	Unable
Able	3	0
Unable	0	0

6 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Sorting samples – large-sized materiel although there are only 3 participants who gave a response

#### 5.6 Sorting samples – tactile

Part 2: Sorting samples – tactile	Part 3: Sorting samples – tactile	
	Able	Unable
Able	2	1
Unable	0	0

6 participants did not attempt this task

#### Test Statistics(b)

	Part2: Sorting samples - tactile & Part3: Sorting samples - tactile
N	3
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 5.7 Sorting samples – colour

Part 2: Sorting samples – colour	Part 3: Sorting samples – colour	
	Able	Unable
Able	2	1
Unable	0	0

6 participants did not attempt this task

#### Test Statistics(b)

	Part2: Sorting samples - colour & Part3: Sorting samples - colour
N	3
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 5.8 Sorting samples – texture

Part 2: Sorting samples – texture	Part 3: Sorting samples – texture	
	Able	Unable
Able	2	1
Unable	0	0

6 participants did not attempt this task

#### Test Statistics(b)

	Part2: Sorting samples - texture & Part3: Sorting samples - texture
N	3
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 5.9 Sorting samples – vision

Part 2: Sorting samples – vision	Part 3: Sorting samples – vision	
	Able	Unable
Able	2	1
Unable	0	0

6 participants did not attempt this task

## 5.10 Marking sample trays/boxes

Part 2: Marking sample trays/boxes	Part 3: Marking sample trays/boxes	
	Able	Unable
Able	4	0
Unable	0	0

5 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in Marking sample trays/boxes although there are only 4 participants who gave a response

## 6. SURVEYING

### 6.1 Lay a tape measure

Part 2: Lay a tape measure	Part 3: Lay a tape measure	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Laying a tape measure

### 6.2 Read a tape measure accurately

Part 2: Read a tape measure accurately	Part 3: Read a tape measure accurately	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Reading a tape measure accurately

### 6.3 Ranging poles – hold

Part 2: Ranging poles – hold	Part 3: Ranging poles – hold	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Ranging poles – hold

## 6.4 Ranging poles – line up

Part 2: Ranging poles – line up	Part 3: Ranging poles – line up	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Ranging poles – line up

## 7. INSTRUMENT SURVEY

### 7.1 Measuring staff – hold

Part 2: Measuring staff – hold	Part 3: Measuring staff – hold	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Measuring staff – hold

### 7.2 Measuring staff – extend

Part 2: Measuring staff – extend	Part 3: Measuring staff – extend	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Measuring staff – extend

### 7.3 Level – set up tripod

Part 2: Level – set up tripod	Part 3: Level – set up tripod	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in setting up tripod for level

### 7.4 Level – attach to tripod

Part 2: Level – attach to tripod	Part 3: Level – attach to tripod	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in attaching level to tripod

### 7.5 Level – use

Part 2: Level – use	Part 3: Level – use	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in using a level

### 7.6 Level – manual focussing

Part 2: Level – manual focussing	Part 3: Level – manual focussing	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in focussing manually a level

### 7.7 Level – read measurements

Part 2: Level – read measurements	Part 3: Level – read measurements	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in reading measurements using a level

### 7.8 Total Station – set up tripod

Part 2: Total Station – set up tripod	Part 3: Total Station – set up tripod	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in setting up tripod for Total Station

### 7.9 Total Station – attach to tripod

Part 2: Total Station – attach to tripod	Part 3: Total Station – attach to tripod	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in attaching Total Station to tripod

### 7.10 Total Station – use

Part 2: Total Station – use	Part 3: Total Station – use	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in using an Total Station

### 7.11 Total Station – manual focussing

Part 2: Total Station – manual focussing	Part 3: Total Station – manual focussing	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in focussing manually an Total Station

### 7.12 Total Station – read measurements

Part 2: Total Station – read measurements	Part 3: Total Station – read measurements	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in reading measurements using an Total Station

### 7.13 Total Station – record readings on screen

Part 2: Total Station – record readings on screen	Part 3: Total Station – record readings on screen	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in reading record on screen

#### 7.14 Total Station – audible signals

Part 2: Total Station – audible signals	Part 3: Total Station – audible signals	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Total Station - audible signals & Part3: Total Station - audible signals
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

#### 7.15 Total Station – attach crystal to staff

Part 2: Total Station – attach crystal to staff	Part 3: Total Station – attach crystal to staff	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in attaching crystal to staff

#### 7.16 Prismatic compass – use

Part 2: Prismatic compass – use	Part 3: Prismatic compass – use	
	Able	Unable
Able	6	0
Unable	0	0

3 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in using a prismatic compass

#### 7.17 Optical square – use

Part 2: Optical square – use	Part 3: Optical square – use	
	Able	Unable
Able	5	0
Unable	0	0

4 participants did not attempt this task

No significant differences of ability between part 2 and part 3 in using an optical square although there are only 5 participants who gave an answer

## 8. SURFACE SURVEY

### 8.1 Field walking – traverse

Part 2: Field walking – traverse	Part 3: Field walking – traverse	
	Able	Unable
Able	6	0
Unable	0	0

3 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Traversing field

### 8.2 Field walking – identifying material

Part 2: Field walking – identifying material	Part 3: Field walking – identifying material	
	Able	Unable
Able	5	0
Unable	0	0

4 participants did not attempt this task

There are no significant differences of ability between part 2 and part 3 in Identifying material when walking on a field although there are only 5 participants who gave an answer

### 8.3 Field walking – pick up material

Part 2: Field walking – pick up material	Part 3: Field walking – pick up material	
	Able	Unable
Able	5	0
Unable	0	0

4 participants did not attempt this task

There are no significant differences of ability between part 2 and part 3 in Picking up material when walking on a field although there are only 5 participants who gave an answer

### 8.4 Field survey – traverse

Part 2: Field survey – traverse	Part 3: Field survey – traverse	
	Able	Unable
Able	7	0
Unable	0	0

2 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Traversing for field survey



## 8.5 Field survey – identifying surface features

Part 2: Field survey – identifying surface feature	Part 3: Field survey – identifying surface feature	
	Able	Unable
Able	7	0
Unable	0	0

2 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Identifying surface features for field survey

## 9. GEOPHYSICAL SURVEY

### 9.1 Magnetometry – use an instrument

Part 2: Magnetometry – use an instrument	Part 3: Magnetometry – use an instrument	
	Able	Unable
Able	7	1
Unable	0	0

1 participant did not attempt this task

#### Test Statistics(b)

	Part2: Magnetometry - use an instrument & Part3: Magnetometry - use an instrument
N	8
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 9.2 Magnetometry – identify walking line

Part 2: Magnetometry – identify walking line	Part 3: Magnetometry – identify walking line	
	Able	Unable
Able	7	1
Unable	0	0

1 participant did not attempt this task

#### Test Statistics(b)

	Part2: Magnetometry - identify walking line & Part3: Magnetometry - identify walking line
N	8
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 9.3 Magnetometry – audible signals

Part 2: Magnetometry – audible signals	Part 3: Magnetometry – audible signals	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

McNemar test: there are no significant differences of ability between part 2 and part 3 in Discerning audible signals using a magnetometer

### 9.4 Resistivity– use an instrument

Part 2: Resistivity– use an instrument	Part 3: Resistivity– use an instrument	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Resistivity - use an instrument & Part3: Resistivity - use an instrument
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

## 9.5 Resistivity – identify walking line

Part 2: Resistivity – identify walking line	Part 3: Resistivity – identify walking line	
	Able	Unable
Able	8	1
Unable	0	0

### Test Statistics(b)

	Part2: Resistivity - identify walking line & Part3: Resistivity - identify walking line
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

## 10. CARRYING EQUIPMENT

### 10.1 Carrying equipment on back

Part 2: Carrying equipment on back	Part 3: Carrying equipment on back	
	Able	Unable
Able	7	2
Unable	0	0

### Test Statistics(b)

	Part2: Carry equipment on back & Part3: Carry equipment on back
N	9
Exact Sig. (2-tailed)	.500(a)

a Binomial distribution used.

b McNemar Test

## 10.2 Carrying equipment in hands

Part 2: Carrying equipment in hands	Part 3: Carrying equipment in hands	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Carrying equipment in hands

## 11. PHYSICAL ABILITIES

### 11.1 Squatting

Part 2: Squatting	Part 3: Squatting	
	Able	Unable
Able	7	0
Unable	2	0

#### Test Statistics(b)

	Part2: Squatting & Part3: Squatting
N	9
Exact Sig. (2-tailed)	.500(a)

a Binomial distribution used.  
b McNemar Test

### 11.2 Kneeling

Part 2: Kneeling	Part 3: Kneeling	
	Able	Unable
Able	8	0
Unable	1	0

#### Test Statistics(b)

	Part2: Kneeling & Part3: Kneeling
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.  
b McNemar Test

### 11.3 Sitting with knees pulled up to chest

Part 2: Sitting with knees pulled up to chest	Part 3: Sitting with knees pulled up to chest	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Sitting with knees pulled up to chest

### 11.4 Sitting

Part 2: Sitting	Part 3: Sitting	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Sitting

### 11.5 Sitting with legs to one side

Part 2: Sitting with legs to one side	Part 3: Sitting with legs to one side	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Sitting with legs to one side

### 11.6 Lying down

Part 2: Lying down	Part 3: Lying down	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Lying down

### 11.7 Strength – high

Part 2: Strength – high	Part 3: Strength – high	
	Able	Unable
Able	7	0
Unable	0	0

2 participants did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Using strength - high

### 11.8 Strength – medium

Part 2: Strength – medium	Part 3: Strength – medium	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Strength - medium & Part3: Strength - medium
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 11.9 Physical stamina – long period

Part 2: Physical stamina – long period	Part 3: Physical stamina – long period	
	Able	Unable
Able	5	1
Unable	0	0

3 participants did not attempt this task

#### Test Statistics(b)

	Part2: Physical stamina - long period & Part3: Physical stamina - long period
N	6
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 11.10 Physical stamina – medium period

Part 2: Physical stamina – medium period	Part 3: Physical stamina – medium period	
	Able	Unable
Able	6	3
Unable	0	0

#### Test Statistics(b)

	Part2: Physical stamina - medium period & Part3: Physical stamina - medium period
N	9
Exact Sig. (2-tailed)	.250(a)

a Binomial distribution used.

b McNemar Test

### 11.11 Physical stamina – short period

Part 2: Physical stamina – short period	Part 3: Physical stamina – short period	
	Able	Unable
Able	7	1
Unable	0	0

1 participant did not attempt this task

#### Test Statistics(b)

	Part2: Physical stamina - short period & Part3: Physical stamina - short period
N	8
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

## 12. COGNITIVE ABILITIES

### 12.1 Vision – colour

Part 2: Vision – colour	Part 3: Vision – colour	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Vision – colour

### 12.2 Vision – texture

Part 2: Vision – texture	Part 3: Vision – texture	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Vision – texture

### 12.3 Vision – physical details

Part 2: Vision – physical details	Part 3: Vision – physical details	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Vision – physical details

### 12.4 Vision – physical features

Part 2: Vision – physical features	Part 3: Vision – physical features	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Vision – physical features

### 12.5 Vision – printed details

Part 2: Vision – printed details	Part 3: Vision – printed details	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Vision – printed details



## 12.6 Vision – close and distant

Part 2: Vision – close and distant	Part 3: Vision – close and distant	
	Able	Unable
Able	8	1
Unable	0	0

### Test Statistics(b)

	Part2: Vision - close and distant & Part3: Vision - close and distant
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

## 12.7 Hearing

Part 2: Hearing	Part 3: Hearing	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Hearing

## 12.8 Touch

Part 2: Touch	Part 3: Touch	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Touch

## 12.9 Balance

Part 2: Balance	Part 3: Balance	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Balance

### 12.10 Spatial awareness

Part 2: Spatial awareness	Part 3: Spatial awareness	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Spatial awareness

### 12.11 Hand/eye co-ordination

Part 2: Hand/eye co-ordination	Part 3: Hand/eye co-ordination	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Hand/eye co-ordination

### 12.12 Comprehension – written material

Part 2: Comprehension – written material	Part 3: Comprehension – written material	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Comprehension – written material

### 12.13 Comprehension – drawings

Part 2: Comprehension – drawings	Part 3: Comprehension – drawings	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Comprehension – drawings

### 12.14 Comprehension – verbal information

Part 2: Comprehension – verbal information	Part 3: Comprehension – verbal information	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Comprehension – verbal information

### 12.15 Organisation/categorisation

Part 2: Organisation/categorisation	Part 3: Organisation/categorisation	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Organisation/categorisation

### 12.16 Short-term memory

Part 2: Short-term memory	Part 3: Short-term memory	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Short-term memory & Part3: Short-term memory
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 12.17 Long-term memory

Part 2: Long-term memory	Part 3: Long-term memory	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Long-term memory

### 12.18 Recognition

Part 2: Recognition	Part 3: Recognition	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Recognition & Part3: Recognition
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 12.19 Mental stamina – long period

Part 2: Mental stamina – long period	Part 3: Mental stamina – long period	
	Able	Unable
Able	3	0
Unable	2	2

2 participants did not attempt this task

#### Test Statistics(b)

	Part2: Mental stamina - long period & Part3: Mental stamina - long period
N	7
Exact Sig. (2-tailed)	.500(a)

a Binomial distribution used.

b McNemar Test

### 12.20 Mental stamina – medium period

Part 2: Mental stamina – medium period	Part 3: Mental stamina – medium period	
	Able	Unable
Able	5	4
Unable	0	0

#### Test Statistics(b)

	Part2: Mental stamina - medium period & Part3: Mental stamina - medium period
N	9
Exact Sig. (2-tailed)	.125(a)

a Binomial distribution used.

b McNemar Test

### 12.21 Mental stamina – short period

Part 2: Mental stamina – short period	Part 3: Mental stamina – short period	
	Able	Unable
Able	8	0
Unable	0	0

1 participant did not attempt this task

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Mental stamina – short period

## 13. TRANSFERABLE SKILLS

### 13.1 Communication – conveying information

Part 2: Communication – conveying information	Part 3: Communication – conveying information	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Communication - conveying information & Part3: Communication - conveying information
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 13.2 Communication – understanding information

Part 2: Communication – understanding information	Part 3: Communication – understanding information	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in  
Communication – understanding information

### 13.3 Communication – at a distance

Part 2: Communication – at a distance	Part 3: Communication – at a distance	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in  
Communication – at a distance

### 13.4 Independent working

Part 2: Independent working	Part 3: Independent working	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Independent working

### 13.5 Team working

Part 2: Team working	Part 3: Team working	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Team working

### 13.6 Time management

Part 2: Time management	Part 3: Time management	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Time management

### 13.7 Adapting to a new environment

Part 2: Adapting to a new environment	Part 3: Adapting to a new environment	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Adapting to a new environment

### 13.8 Analysing qualitative data

Part 2: Analysing qualitative data	Part 3: Analysing qualitative data	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Analysing qualitative data & Part3: Analysing qualitative data
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 13.9 Analysing quantitative data

Part 2: Analysing quantitative data	Part 3: Analysing quantitative data	
	Able	Unable
Able	8	1
Unable	0	0

#### Test Statistics(b)

	Part2: Analysing quantitative data & Part3: Analysing quantitative data
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 13.10 Problem solving

Part 2: Problem solving	Part 3: Problem solving	
	Able	Unable
Able	9	0
Unable	0	0

McNemar test: there are no significant differences of ability between part 2 and part 3 in Problem solving



### 2.13.11 Decision making

Part 2: Decision making	Part 3: Decision making	
	Able	Unable
Able	8	0
Unable	1	0

#### Test Statistics(b)

	Part2: Decision making & Part3: Decision making
N	9
Exact Sig. (2-tailed)	1.000(a)

a Binomial distribution used.

b McNemar Test

### 13.12 Social skills

Part 2: Social skills	Part 3: Social skills	
	Able	Unable
Able	9	0
Unable	0	0

Mc Nemar test: there are no significant differences of ability between part 2 and part 3 in Social skills



## APPENDIX II:

### RESULTS OF THE ANALYSIS OF THE PART 4 DOCUMENT



Category	Tasks	Students who performed tasks	Student Numbers who did not perform tasks	Student Number Scoring High	Student Number Scoring Average	Student Number Scoring Low	Student Average Score
Site records	Comprehending site records	9	0	2	6	1	2.11
	Completing site records-descriptions	8	1	2	4	2	2.00
	Completing site records-numerical data	8	1	1	4	3	1.75
	Read and understand maps & plans accurately	8	1	4	4	0	2.50
	Understanding of what is involved in putting together site records	8	1	1	5	2	1.88
Excavation	Cutting turf	9	0	5	3	1	2.44
	Lifting turf	9	0	5	3	1	2.44
	Excavation – large tools (pick, mattock, draw hoe)	4	5	3	1	0	2.75
	Excavation – small tools (trowelling)	9	0	3	6	0	2.33
	Discerning stratigraphy	9	0	1	8	0	2.11
	Using a sprayer	2	7	0	2	0	2.00
	Dry sieving	2	7	0	2	0	2.00
	Disposal of spoil	8	1	6	2	0	2.75
	Understanding of what is involved in the process of excavation	9	0	4	5	0	2.44
Planning	Drawing an archaeological plan	6	3	1	5	0	2.17
	Section drawing	9	0	3	6	0	2.33
	Taking off-sets	4	5	0	3	1	1.75
	Understanding of what is involved in the process of planning	8	1	1	4	3	1.75

Category	Tasks	Student Number who performed tasks	Student Number who did not perform tasks	Student Number Scoring High	Student Number Scoring Average	Student Number Scoring Low	Student Average Score
Artefacts	Washing artefacts	5	4	2	3	0	2.40
	Sorting artefacts	5	4	2	3	0	2.40
	Identifying artefacts	9	0	0	8	1	1.89
	Understanding of what is involved in the processing of artefacts	9	0	1	7	1	2.00
Sampling	Flotation and wet sieving	2	7	0	1	1	1.50
	Sorting material	4	5	0	4	0	2.00
	Understanding of what is involved in the process of environmental sampling	5	4	0	2	3	1.40
Surveying	Using tape measures	9	0	7	2	0	2.78
	Using ranging poles	9	0	7	2	0	2.78
	Accurate recording of measurements	9	0	4	5	0	2.44
	Understanding of what is involved in the process of surveying	9	0	6	3	0	2.67
Instrument Survey	Using a level	9	0	5	4	0	2.56
	Using a total station	9	0	4	5	0	2.44
	Using a prismatic compass	7	2	2	5	0	2.29
	Using an optical square	5	4	2	3	0	2.40
	Accurate recording of measurements	9	0	3	6	0	2.33
	Understanding of what is involved in the process of instrument survey	9	0	1	8	0	2.11
Field	Field walking	6	3	3	3	0	2.50
	Field survey	8	1	3	5	0	2.38
	Understanding of what is involved in the process of field survey	8	1	3	5	0	2.38

<b>Category</b>	<b>Tasks</b>	<b>Student Number who performed tasks</b>	<b>Student Number who did not perform tasks</b>	<b>Student Number Scoring High</b>	<b>Student Number Scoring Average</b>	<b>Student Number Scoring Low</b>	<b>Student Average Score</b>
Geophysics	Using a magnetometer	8	1	3	4	1	2.25
	Using a resistance meter	9	0	3	6	0	2.33
	Understanding of what is involved in the process of geophysical survey	9	0	3	6	0	2.33
Transferable skills	Communication	9	0	5	4	0	2.56
	Independent working	9	0	6	3	0	2.67
	Team working	9	0	5	4	0	2.56
	Time management	9	0	2	6	1	2.11
	Adapting to a new environment	9	0	4	3	2	2.22
	Problem solving	9	0	1	8	0	2.11
	Decision making	9	0	4	4	1	2.33
	Social skills	9	0	5	4	0	2.56
	Analysing qualitative data	8	1	0	8	0	2.00
	Analysing quantitative data	8	1	0	8	0	2.00
	Analysing digital data	8	1	2	5	1	2.13
	Physical stamina	9	0	4	5	0	2.44
	Mental stamina	9	0	2	7	0	2.22
	An appreciation of site Health and Safety	9	0	5	3	1	2.44
	Understanding of the importance and applications of transferable skills	9	0	4	5	0	2.44

