



Supplement of

Learning outcomes, learning support, and cohort cohesion on a virtual field trip: an analysis of student and staff perceptions

Clare E. Bond et al.

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Supplementary Material - Learning outcomes, learning support and cohort cohesion on a virtual field trip: an analysis of student and staff perceptions

- 1. Internet Test Form
- 2. Staff Pre-course Survey
- 3. Staff Post-course Survey
- 4. Student Pre-course Survey
- 5. Student Post Course Survey

Supplementary Material - Learning outcomes, learning support and cohort cohesion on a virtual field trip: an analysis of student and staff perceptions

1. Internet Test Form

Virtual Field (aka Torridon)

This form asks you a series of questions that we NEED you to answer so that we can best deliver the Virtual Field 'Trip' that will replace Torridon. Please answer it to the best of your ability. The more prepared you, and we, are the better it will run.

* Required

Computing Facilities

1. What computing hardware do you have access to? *

Check all that apply.

Laptop ipad desktop other None

2. Do you have access to a mobile phone or digital camera for taking photos of * your work to upload?

Mark only one oval.

C	\supset	Yes
(No

3. What is your internet access? *

Mark only one oval.

_____ ethernet (cable into wall)

home wifi

phone only

How good is
your internet?Go to https://broadbandtest.which.co.uk
run the test in the conditions/time that you expect to be working and
then answer the following questions.
NOTE the tests can take some time to run, wait until you have
numbers for each of the 3 tests.

- 4. latency (number only) *
- 5. download speed (number only) *
- 6. upload speed (number only) *

Access to Resources & Time We will run the Virtual Field 'Trip' over 5 weeks starting on May 25th. Exercises will be introduced on the Monday and Wednesday each week. These introductions will be recorded so that you can access them at other times. There will also be online Q&A sessions and demonstrator time.

In order to support you as best we can, we will put you into groups based on when you are most available, to access demonstrators and to work together. Please indicate your likely availability over the five weeks on the days and times specified. If you are generally available please select this option to give the most flexibility.

7. Mondays

Check all that apply.

- Generally available
- 9-10am
- ____ 10am-11am
- 📃 11am-12 noon
- 12 noon- 1pm
- _____1-2pm
- _____2-3pm
- 3-4pm
- ____ 4-5pm
- early evening

8. Tuesdays *

Check all that apply.

- Generally available
- 9-10am
- 10am-11am
- 11am-12 noon
- _____12 noon- 1pm
- 1-2pm
- 2-3pm
- 3-4pm
- ____ 4-5pm
- early evening

9. Wednesdays *

Check all that apply.

- Generally available
- 9-10am
- 10am-11am
- 11am-12 noon
- 12 noon- 1pm
- _____1-2pm
- _____2-3pm
- 3-4pm
- 4-5pm
- early evening

10. Thursdays *

Check all that apply.

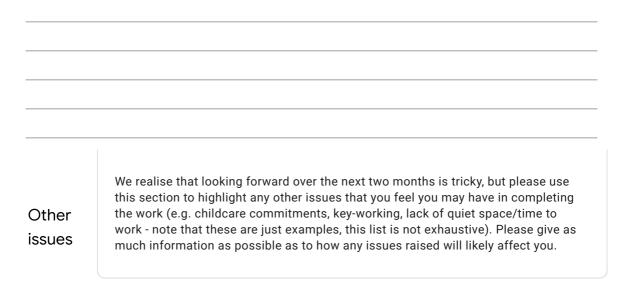
Generally available 9-10am 10am-11am 11am-12 noon 12 noon- 1pm 1-2pm 2-3pm 3-4pm 4-5pm early evening

11. Fridays *

Check all that apply.

Generally available 9-10am 10am-11am 11am-12 noon 12 noon- 1pm 2-3pm 2-3pm 3-4pm 4-5pm early evening Where are you? We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent out to you.		
Where	Generally a	available
 11am-12 noon 12 noon- 1pm 1-2pm 2-3pm 3-4pm 4-5pm early evening We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent	9-10am	
 12 noon- 1pm 1-2pm 2-3pm 3-4pm 4-5pm early evening We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent	10am-11ar	n
 1-2pm 2-3pm 3-4pm 4-5pm early evening We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent	🗌 11am-12 n	oon
 2-3pm 3-4pm 4-5pm early evening We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent 	12 noon- 1	pm
 3-4pm 4-5pm early evening We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent 	1-2pm	
 4-5pm early evening We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent 	2-3pm	
where We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent	3-4pm	
We would like to send out a printed workbook, in addition to the online resources that will be available. Please provide the details of where you are below so that we can get this sent	4-5pm	
Whereresources that will be available. Please provide the details of where you are below so that we can get this sent	early eveni	ng
Whereresources that will be available. Please provide the details of where you are below so that we can get this sent		
Whereresources that will be available. Please provide the details of where you are below so that we can get this sent		We would like to condout a printed workbook, in addition to the online
Please provide the details of where you are below so that we can get this sent	Whore	
		· · · ·
	are you:	

- 12. Name *
- 13. Address (please ensure you include a postcode) *



14. Anything else you would like to raise?

Supplementary Material - Learning outcomes, learning support and cohort cohesion on a virtual field trip: an analysis of student and staff perceptions

2. Staff Pre-course Survey

Perceptions and Outcomes of a Virtual Field Trip

This is an online set of questions designed to help us assess the perception of and effectiveness of Virtual Field Trips in the geology curriculum. This research is led by Clare Bond at the University of Aberdeen.

Participation in the research is completely voluntary. You can withdraw at any time, without reason.

AIMS

We aim to use the results to inform teaching practice at the University of Aberdeen and more broadly within the sector through academic publications and presentations.

WHAT YOU WILL BE ASKED TO DO

You will be asked to answer a series of questions that ask about your personal perceptions of Virtual Field Trips and your experience of taking part in one. You will be asked to answer questions at the start, the middle and the end of the Virtual Field Trip.

DATA MANAGEMENT AND STORAGE

The data collected will be anonymous and stored on University of Aberdeen secure servers while it is analysed for the research. Summary data may be made available in data stores associated with publication.

Thank you for taking part in this research.

If you have any questions about this research please contact:

clare.bond@abdn.ac.uk

* Required

	Investigating perceptions and outcomes of running a Virtual Field Trip
	Please read the statements below and tick the final box to confirm you have read anc understood the statements and upon doing so agree to participate in the project.
	I confirm that the research project "Investigating perceptions and outcomes of running a Virtual Field Trip" has been explained to me. I have had the opportunity to ask questions about the project and have had these answered satisfactorily.
	I consent to the material I contribute being used to generate insights for the research project "Investigating perceptions and outcomes of running a Virtual Field Trip".
Consent	I understand that my participation in this research is voluntary and that I may withdraw from the research at any time.
	I consent to allow the fully anonymised data to be used for future publications and other scholarly means of disseminating the findings from the research project.
	I understand that the information/data acquired will be securely stored by researchers, but that appropriately anonymised data may in future be made available to others for research purposes. I understand that the University may publish appropriately anonymised data in its research repository for verification purposes and to make it accessible to researchers and other research users.

1. I confirm that I have read and understood the above statements *

Check all that apply.

Confirm

2. Are you a demonstrator or a staff member? *

Mark only one oval.

🔵 staff

demonstrator

Expectations of a virtual field trip

These first set of questions ask about your expectations of a virtual field trip.

3. 1. What do you think the positive aspects of a virtual field course might be?

4. 2. What do you think the negative aspects of a virtual field course might be?

Some expected learning outcomes for this course, of which this field trip is a part, are listed below. Please rate each learning outcome on a scale of 1-5 of how likely you think it is to be achieved given the move to a virtual field trip; where 1 is unlikely to be achieved and 5 is likely to be achieved.

5. 3 a. Seeing rocks in their context in the field

Mark only one oval.

 1
 2
 3
 4
 5

 unlikely to be achieved

 Ikely to be achieved

6. 3 b. Making detailed observations of rock outcrops and fabrics

Mark only one oval.											
	1	2	3	4	5						
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved					
3 c. Collecting structur	3 c. Collecting structural data										
Mark only one oval.											
					_						

	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

8. 3 d. Completing sedimentary logging

Mark only one oval.

7.

	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

9. 3 e. Interpreting and analysing structural data



10. 3 f. Interpreting and analysing sedimentary logs

Mark only one oval.						
	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved
3 g. Building and main	tain a f	field no	tebook			
Mark only one oval.						
	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved
2 h. Field ekstehing						
3 h. Field sketching						
Mark only one oval.						
	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

13. 3 i. Interpretation of field observations to make predictions

Mark only one oval.

11.

12.

	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

14. 3 j. Interpretation of field observations to build a geological history

unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved
	1	2	3	4	5	
Mark only one oval.						

15. 3 k. Synthesising datasets to create maps, cross sections, evolutionary understanding anc analysis of palaeoenvironments.

unlikely to	be achieved	1	2	3	4	5	likely to be achieved
Other	A virtual fie from: 1 to	-	-			ces. Pl	ease rate the followin

16. 4a. A virtual field trip will in comparison to an actual field trip decrease peer-peer learning

Mark only one oval.

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

17. 4b. A virtual field trip will in comparison to an actual field trip decrease student cohesion

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

 4c. A virtual field trip will in comparison to an actual field trip provide individual students w less academic support

Mark only one	oval.					
	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

19. 4d. A virtual field trip will in comparison to an actual field trip provide the group with less academic support

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

Timing, Duration & Home working This field trip would normally take place over 10 days in the NW Highlands of Scotland. We have decided to run the course over 5 weeks, with the equivalent of 2 days of activity each week. We have done this in an attempt to maximise the ability for individuals to take part effectively in the field trip given other commitments (including but not limited to: key working, caring, responsibilities, internet access issues etc.). Please rate the following statements from: 1 to 5 (see descriptors below). 20. 5a. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), will be good for individual students

Mark only one oval.



21. 5b. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), will be good for the student group as a whole

Mark only one oval.

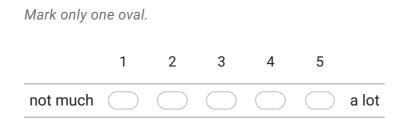


22. 5c. I think the ability for students to engage in and complete work on the Virtual Field Trip will be affected by caring responsibilities

Mark only one oval.



23. 5d. I think the ability for students to engage in and complete work on the Virtual Field Trip will be affected by lack of a quiet place to work and think



24. 5e. I think the ability for students to engage in and complete work on the Virtual Field Trip will be affected by internet access issues

Mark only one oval.

 1
 2
 3
 4
 5

 not much

 a lot

25. 5f. I think the ability for students to engage in and complete work on the Virtual Field Trip be affected by having to work (non-academic)

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
not much	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	a lot

Printed Workbook We have sent out a printed Workbook. Please rate the following statements from 1 (not really) to 5 (yes alot):

26. 6a. A printed workbook will help the students learn because it will allow them to find a quieter space/place to learn.

 1
 2
 3
 4
 5

 not really

 yes alot

27. 6b. A printed workbook will help the students learn because it will allow them to read instructions whilst working on the computer.

not really	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	yes alot
	1	2	3	4	5	
Mark only c	one oval					

28. 6c. A printed workbook will help the students learn because it will allow them to reflect an read things away from the computer screen.

Mark only one oval.



29. 6d. A printed workbook will help the students learn because it will provide useful as a future reference resource.

Mark only one oval.



Anything else to add?

30. 7. Please add any other thoughts or feeling you have about delivering a Virtual Field Trip.

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3. Staff Post-course Survey

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1. I confirm that I have read and understood the above statements *

Check all that apply.

Confirm

How you found the virtual field trip

Having completed the virtual field trip, please complete the following questions.

2.	1.	What do you think the positiv	e aspects of a virtual field course are?
3.	2.	What do you think the negati	ve aspects of a virtual field course are?
0 W	utco /hich	expected learning mes for this course, of this field trip is a part, are below.	Please rate each learning outcome on a scale of 1-5 of the level to which you felt it has been achieved; where - 1 has not been achieved and 5 has been achieved.

4. 3 a. Seeing rocks in their context in the field



5. 3 b. Making detailed observations of rock outcrops and fabrics

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

6. 3 c. Collecting structural data

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

7. 3 d. Completing sedimentary logging

Mark only one oval.



8. 3 e. Interpreting and analysing structural data



9. 3 f. Interpreting and analysing sedimentary logs

Mark only one oval. 1 2 3 4 5 not achieved ______ achieved

10. 3 g. Building and maintain a field notebook

Mark only one oval.

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

11. 3 h. Field sketching

Mark only one oval.

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

12. 3 i. Interpretation of field observations to make predictions



13. 3 j. Interpretation of field observations to build a geological history

Mark only one oval. 1 2 3 4 5 not achieved _____ achieved

14. 3 k. Synthesising datasets to create maps, cross sections, evolutionary understanding an analysis of palaeoenvironments.

		1	2	3	4	5	
not achie	eved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved
ther ifluences			field tri to 5 (se				uences. Ple

15. 4a. A virtual field trip in comparison to an actual field trip decreases peer-peer learning

Mark only one oval.

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

16. 4b. A virtual field trip in comparison to an actual field trip decreases student cohesion

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

17. 4c. A virtual field trip in comparison to an actual field trip provided me personally with less academic support

Mark only one	oval.					
	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

18. 4d. A virtual field trip in comparison to an actual field trip provided the group with less academic support

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

Timing, Duration & Home working This field trip would normally take place over 10 days in the NW Highlands of Scotland. We decided to run the course over 5 weeks, with the equivalent of 2 days o activity each week. We did this in an attempt to maximise the ability for individuals to take part effectively in the field trip given other commitments (including but not limited to: key working, caring, responsibilities, internet access issues etc.). Please rate the following statements from: 1 to 5 (see descriptors below). 19. 5a. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), was good for me personally.

Mark only one oval.



20. 5b. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), was good for the student group as a whole

Mark only one oval.

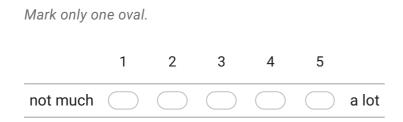


21. 5c. I think my ability to engage in and complete work on the Virtual Field Trip was affected by caring responsibilities

Mark only one oval.



22. 5d. I think my ability to engage in and complete work on the Virtual Field Trip was affected by lack of a quiet place to work and think



23. 5e. I think my ability to engage in and complete work on the Virtual Field Trip was affected by internet access issues

Mark only	one	oval.	
-----------	-----	-------	--



24. 5f. I think my ability to engage in and complete work on the Virtual Field Trip was affected having to work (non-academic)

Mark only one oval.

	1	2	3	4	5	
not much	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	a lot

We sent out a printed Workbook. Please rate the following statements from 1 (not really) to 5 (yes alot):

25. 6a. A printed workbook helped me learn because it allowed me to find a quieter space/pla to learn.

Mark only one oval.

Printed

Workbook



26. 6b. A printed workbook helped me learn because it allowed me to read instructions whilst working on the computer.

	1	2	3	4	5	
not really	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	yes alot

27. 6c. A printed workbook helped me learn because it allowed me to reflect and read things away from the computer screen.

Mark only one oval.



28. 6d. A printed workbook will help me to learn because it will provide useful as a future reference resource.

Mark only one oval.



Anything else to add?

29. 7. Please add any other thoughts or feeling you have about completing the Virtual Field Tri

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Consent	I understand that my participation in this research is voluntary and that I may withdraw from the research at any time.
	I consent to allow the fully anonymised data to be used for future publications and other scholarly means of disseminating the findings from the research project.
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1. I confirm that I have read and understood the above statements *

Check all that apply.

Confirm

Expectations of a virtual field trip

These first set of questions ask about your expectations of a virtual field trip.

2.	1.	What do you think the po	oositive aspects of a virtual field course might be?						
3.	2.	What do you think the ne	egative aspects of a virtual field course might be?						
0 0	utco f wh	e expected learning omes for this course, ich this field trip is a are listed below.	Please rate each learning outcome on a scale of 1-5 of how likely you think it is to be achieved given the move to a virtual field trip; where 1 is unlikely to be achieved and 5 is likely to be achieved.						

4. 3 a. Seeing rocks in their context in the field

	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

5. 3 b. Making detailed observations of rock outcrops and fabrics

Mark only one oval.						
	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved
3 c. Collecting structur	ral data	à				
Mark only one oval.						
	1	2	3	4	5	

likely to be achieved

7. 3 d. Completing sedimentary logging

Mark only one oval.

unlikely to be achieved

6.



8. 3 e. Interpreting and analysing structural data

	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

9. 3 f. Interpreting and analysing sedimentary logs

Mark only one oval. 1 2 3 4 5 unlikely to be achieved likely to be achieved 3 g. Building and maintain a field notebook 10. Mark only one oval. 1 2 3 5 4 unlikely to be achieved likely to be achieved 3 h. Field sketching 11. Mark only one oval. 1 2 3 4 5 unlikely to be achieved likely to be achieved

12. 3 i. Interpretation of field observations to make predictions

	1	2	3	4	5	
unlikely to be achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	likely to be achieved

13. 3 j. Interpretation of field observations to build a geological history

unlikely to be achieved		\bigcirc	\bigcirc		\bigcirc	likely to be achieved
	1	2	3	4	5	
Mark only one oval.						

14. 3 k. Synthesising datasets to create maps, cross sections, evolutionary understanding anc analysis of palaeoenvironments.

unlikely to	be achieved	1	2	3	4	5	likely to be achieved
Other	A virtual fie from: 1 to 5	-	-			ces. Pl	ease rate the following st

15. 4a. A virtual field trip will in comparison to an actual field trip decrease peer-peer learning

Mark only one oval.

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

16. 4b. A virtual field trip will in comparison to an actual field trip decrease student cohesion

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

17. 4c. A virtual field trip will in comparison to an actual field trip provide me personally with le academic support

Mark only one	oval.					
	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

18. 4d. A virtual field trip will in comparison to an actual field trip provide the group with less academic support

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

Timing, Duration & Home working This field trip would normally take place over 10 days in the NW Highlands of Scotland. We have decided to run the course over 5 weeks, with the equivalent of 2 days of activity each week. We have done this in an attempt to maximise the ability for individuals to take part effectively in the field trip given other commitments (including but not limited to: key working, caring, responsibilities, internet access issues etc.). Please rate the following statements from: 1 to 5 (see descriptors below). 19. 5a. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), will be good for me personally.

Mark only one oval.



20. 5b. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), will be good for the student group as a whole

Mark only one oval.

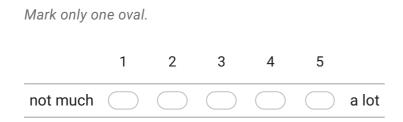


21. 5c. I think my ability to engage in and complete work on the Virtual Field Trip will be affect by caring responsibilities

Mark only one oval.



22. 5d. I think my ability to engage in and complete work on the Virtual Field Trip will be affect by lack of a quiet place to work and think



23. 5e. I think my ability to engage in and complete work on the Virtual Field Trip will be affect by internet access issues

Mark	only	one	oval.	



24. 5f. I think my ability to engage in and complete work on the Virtual Field Trip will be affected by having to work (non-academic)

Mark only one oval.

Mark only one oval.

	I	Z	3	4	5	
not much	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	a lot

Printed	We have sent out a printed Workbook. Please rate the following statements from 1 (not really) to 5 (yes alot):
Workbook	

25. 6a. A printed workbook will help me learn because it will allow me to find a quieter space/place to learn.



26. 6b. A printed workbook will help me learn because it will allow me to read instructions whi working on the computer.

not really	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	yes alot
	1	2	3	4	5	
Mark only o	one oval	•				

27. 6c. A printed workbook will help me learn because it will allow me to reflect and read thing away from the computer screen.

Mark only one oval.



28. 6d. A printed workbook will help me to learn because it will provide useful as a future reference resource.

Mark only one oval.



Anything else to add?

29. 7. Please add any other thoughts or feeling you have about completing a Virtual Field Trip.

Supplementary Material - Learning outcomes, learning support and cohort cohesion on a virtual field trip: an analysis of student and staff perceptions

5. Student Post-course Survey

Perceptions and Outcomes of a Virtual Field Trip

This is an online set of questions designed to help us assess the perception of and effectiveness of Virtual Field Trips in the geology curriculum. This research is led by Clare Bond at the University of Aberdeen.

Participation in the research is completely voluntary. You can withdraw at any time, without reason.

AIMS

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We aim to use the results to inform teaching practice at the University of Aberdeen and more broadly within the sector through academic publications and presentations.

WHAT YOU WILL BE ASKED TO DO

You will be asked to answer a series of questions that ask about your personal perceptions of Virtual Field Trips and your experience of taking part in one. You will be asked to answer questions at the start, the middle and the end of the Virtual Field Trip.

DATA MANAGEMENT AND STORAGE

The data collected will be anonymous and stored on University of Aberdeen secure servers while it is analysed for the research. Summary data may be made available in data stores associated with publication.

Thank you for taking part in this research.

If you have any questions about this research please contact:

clare.bond@abdn.ac.uk

* Required

	Investigating perceptions and outcomes of running a Virtual Field Trip
	Please read the statements below and tick the final box to confirm you have read anc understood the statements and upon doing so agree to participate in the project.
	I confirm that the research project "Investigating perceptions and outcomes of running a Virtual Field Trip" has been explained to me. I have had the opportunity to ask questions about the project and have had these answered satisfactorily.
	I consent to the material I contribute being used to generate insights for the research project "Investigating perceptions and outcomes of running a Virtual Field Trip".
Consent	I understand that my participation in this research is voluntary and that I may withdraw from the research at any time.
	I consent to allow the fully anonymised data to be used for future publications and other scholarly means of disseminating the findings from the research project.
	I understand that the information/data acquired will be securely stored by researchers, but that appropriately anonymised data may in future be made available to others for research purposes. I understand that the University may publish appropriately anonymised data in its research repository for verification purposes and to make it accessible to researchers and other research users.

1. I confirm that I have read and understood the above statements *

Check all that apply.

Confirm

How you found the virtual field trip

Having completed the virtual field trip, please complete the following questions.

2.	1.	What do you think the positiv	ve aspects of a virtual field course are?								
3.	2.	. What do you think the negative aspects of a virtual field course are?									
0 W	utco /hich	expected learning mes for this course, of this field trip is a part, are below.	Please rate each learning outcome on a scale of 1-5 of the level to which you felt it has been achieved; where - 1 has not been achieved and 5 has been achieved.								

4. 3 a. Seeing rocks in their context in the field



5. 3 b. Making detailed observations of rock outcrops and fabrics

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

6. 3 c. Collecting structural data

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

7. 3 d. Completing sedimentary logging

Mark only one oval.



8. 3 e. Interpreting and analysing structural data



9. 3 f. Interpreting and analysing sedimentary logs

Mark only one oval. 1 2 3 4 5 not achieved ______ achieved

10. 3 g. Building and maintain a field notebook

Mark only one oval.

	1	2	3	4	5	
not achieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved

11. 3 h. Field sketching

Mark only one oval.



12. 3 i. Interpretation of field observations to make predictions



13. 3 j. Interpretation of field observations to build a geological history

Mark only one oval.

 1
 2
 3
 4
 5

 not achieved

 achieved

14. 3 k. Synthesising datasets to create maps, cross sections, evolutionary understanding anc analysis of palaeoenvironments.

		1	2	3	4	5	
not ach	nieved	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	achieved
ther fluences		virtual rom: 1					uences. Ple

15. 4a. A virtual field trip in comparison to an actual field trip decreases peer-peer learning

Mark only one oval.

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

16. 4b. A virtual field trip in comparison to an actual field trip decreases student cohesion

	1	2	3	4	5	
no to little impact	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	significant impact

17. 4c. A virtual field trip in comparison to an actual field trip provided me personally with less academic support

Mark only one	oval.					
	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

18. 4d. A virtual field trip in comparison to an actual field trip provided the group with less academic support

Mark only one oval.

Mark only one oval.

	1	2	3	4	5	
less support	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	more support

Timing, Duration & Home working This field trip would normally take place over 10 days in the NW Highlands of Scotland. We decided to run the course over 5 weeks, with the equivalent of 2 days o activity each week. We did this in an attempt to maximise the ability for individuals to take part effectively in the field trip given other commitments (including but not limited to: key working, caring, responsibilities, internet access issues etc.). Please rate the following statements from: 1 to 5 (see descriptors below). 19. 5a. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), was good for me personally.

Mark only one oval.



20. 5b. Running the field trip over 5 weeks, rather than in a compressed 10 day field trip slot (online), was good for the student group as a whole

Mark only one oval.

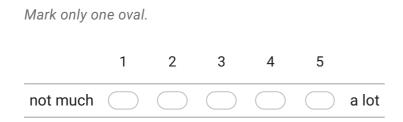


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Mark only one oval.



22. 5d. I think my ability to engage in and complete work on the Virtual Field Trip was affected by lack of a quiet place to work and think



23. 5e. I think my ability to engage in and complete work on the Virtual Field Trip was affected by internet access issues

Mark only one oval.	
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24. 5f. I think my ability to engage in and complete work on the Virtual Field Trip was affected having to work (non-academic)

Mark only one oval.

	1	2	3	4	5	
not much	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	a lot

We sent out a printed Workbook. Please rate the following statements from 1 (not really) to 5 (yes alot):

25. 6a. A printed workbook helped me learn because it allowed me to find a quieter space/pla to learn.

Mark only one oval.

Printed

Workbook



26. 6b. A printed workbook helped me learn because it allowed me to read instructions whilst working on the computer.

	1	2	3	4	5	
not really	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	yes alot

27. 6c. A printed workbook helped me learn because it allowed me to reflect and read things away from the computer screen.

Mark only one oval.



28. 6d. A printed workbook will help me to learn because it will provide useful as a future reference resource.

Mark only one oval.



Anything else to add?

29. 7. Please add any other thoughts or feeling you have about completing the Virtual Field Tri