

APPLICATION FOR ETHICAL APPROVAL

In order for research to result in benefit and minimise risk of harm, it must be conducted ethically. A researcher may not be covered by the University's insurance if ethical approval has not been obtained prior to commencement.

The University follows the OECD Frascati manual definition of **research activity**: "creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications". As such this covers activities undertaken by members of staff, postgraduate research students, and both taught postgraduate and undergraduate students working on dissertations/projects.

The individual undertaking the research activity is known as the "principal researcher".

Ethical approval is not required for routine audits, performance reviews, quality assurance studies, testing within normal educational requirements, and literary or artistic criticism.

Please read the notes for guidance before completing ALL sections of the form.

This form must be completed and approved prior to undertaking any research activity. Please see Checklist for details of process for different categories of application.

Delete the Guidance Notes at the end of the form BEFORE submitting your application

SECTION A: About You (Principal Researcher)

Full Name:		Callum Thomas Slade			
Tick all boxes which apply:		Member of staff:	☐	Honorary research fellow:	☐
Undergraduate Student	☐	Taught Postgraduate Student	☒	Postgraduate Research Student	☐
Faculty/School/Centre:		University of Wales Trinity Saint David			
Campus:		SA1 Waterfront Campus			
E-mail address:		1900176@student.uwtsd.ac.uk			
Contact Telephone Number:		07847281903			
For students:					
Student Number:		1900176			
Programme of Study:		PGCE Secondary Geography			
Director of Studies/Supervisor:		Catherine Morgan			

SECTION B: Approval for Research Activity

Has the research activity received approval in principle? (please check the Guidance Notes as to the appropriate approval process for different levels of research by different categories of individual)		YES	☒	NO	☐
					Date
If Yes, please indicate source of approval (and date where known): Approval in principle must be obtained from the relevant source prior to seeking ethical approval	Research Degrees Committee		☐		
	Faculty Research Committee		☐		
	Other (write in) School Senior Mentor		☒	13/12/19	

SECTION C: Internal and External Ethical Guidance Materials

Please list the core ethical guidance documents that have been referred to during the completion of this form (including any discipline-specific codes of research ethics, and also any specific ethical guidance relating to the proposed methodology). Please tick to confirm that your research proposal adheres to these codes and guidelines.	
UWTSD Research Ethics & Integrity Code of Practice	☒
UWTSD Research Data Management Policy	☒
British Educational Research Association Ethical Guidelines for Educational Research 2018	☒

SECTION D: External Collaborative Research Activity

Does the research activity involve collaborators outside of the University?		YES	☐	NO	☒
If Yes, please provide the name of the external organisation and name and contact details for the main contact person and confirmation this person has consented to their personal data being shared as part of this collaboration.					
Institution					
Contact person name					
Contact person e-mail address					
Has this individual consented to sharing their details on this form?		YES	☐	NO	☒
Are you in receipt of a KESS scholarship?		YES	☐	NO	☒
Is your research externally funded		YES	☐	NO	☒
Are you specifically employed to undertake this research in either a paid or voluntary capacity?	Voluntary	YES	☒	NO	☐
	Employed	YES	☐	NO	☒
Is the research being undertaken within an existing UWTSD Athrofa Professional Learning Partnership (APLP)	If YES then the permission question below does not need to be answered.	YES	☒	NO	☐
Permission to undertake the research has been provided by the partner organisation	(If YES attach copy) If NO the application cannot continue	YES	☐	NO	☐

Where research activity is carried out in collaboration with an external organisation

Does this organisation have its own ethics approval system?	YES	☐	NO	☒
If Yes, please attach a copy of any final approval (or interim approval) from the organisation				

SECTION E: Details of Research Activity

Indicative title:	How can we improve pupil's understanding of a topic through the use of analogies?		
Proposed start date:	06/01/2020	Proposed end date:	21/02/2020
Introduction to the Research (maximum 300 words) Ensure that you write for a Non-Specialist Audience when outlining your response to the three points below: • Purpose of Research Activity • Proposed Research Question • Aims of Research Activity • Objectives of Research Activity Demonstrate, briefly, how Existing Research has informed the proposed activity and explain • What the research activity will add to the body of knowledge • How it addresses an area of importance.			
Purpose of Research Activity To discover the effects of the use of analogies in lessons on pupils understanding of a topic. This will demonstrate if analogies can improve pupil's understanding of a topic/concept within a lesson. (this box should expand as you type)			
Research Question How can we improve pupil's understanding of a topic through the use of analogies? (this box should expand as you type)			
Aims of Research Activity The aim of the research is to discover whether the use of analogies can improve a pupil's understanding of a topic. (this box should expand as you type)			
Objectives of Research Activity Conduct a lesson study to see whether the use of analogies in practise can improve a pupil's understanding of a topic. Conduct a focus group interview at the end of the lesson to gain further understanding as to whether analogies improve pupil's understanding of a topic. To reflect and improve on the lesson focus taught using the reflective model created. (this box should expand as you type)			
Proposed methods (maximum 600 words)			

Provide a brief summary of all the methods that **may** be used in the research activity, making it clear what specific techniques may be used. If methods other than those listed in this section are deemed appropriate later, additional ethical approval for those methods will be needed.

The method to be used will be a lesson study. A lesson study is where joint planning, joint observation and joint analysis is carried out by two or more researchers (Dudley). This helps improve the professional development of those involved (Amador and Carter, 2018). Three 'Case Pupils' will be selected from one class in two different schools. The first three pupils will be observed during one of the researcher's lesson with the other researcher carrying out a participant observation. After the participant observation, a focus group interview will be carried out with the three 'Case Pupils' to go into the chosen topic of research further. After this, the two researchers will reflect on the lesson previously observed using a reflective model adapted by them using literature such as Gibbs Reflective Model and Kolb's reflective cycle, come up with an action plan to improve the lesson and then implement it for the following lesson in the different class the next day. The next day the process will happen again but with the researcher who taught the day before as the observer and the observer as the teacher.

(this box should expand as you type)

Location of research activity

Identify all locations where research activity will take place.

School Y is a Secondary school in South Wales for pupils aged 11-19. It has 1700 pupils and is a Green support category group. Only 6.5% of pupils are eligible for Free School Meals. It has a sixth form with less than 400 pupils in. Only 12% of pupils have Special Educational Needs which is less than the national average and over 20% of pupils speak English as an additional language. The school was rated as 'Excellent' according to its most recent Estyn Report in 2018.

School X has previously been rated 'Good' in their Eystn inspection of 2017. It is an English medium 11 to 19 mixed comprehensive school with over 1000 pupils. 12.7% of the school have free school meals which is lower than the national average whilst 7.8% of pupils come from an ethnic minority background. This is lower than the national average. Very few pupils speak English as an additional language and 4.8% of pupils have a statement of special educational needs. This is higher than the national average.

(this box should expand as you type)

Research activity outside of the UK

If research activity will take place overseas, you are responsible for ensuring that local ethical considerations are complied with and that the relevant permissions are sought. Specify any local guidelines (e.g. from local professional associations/learned societies/universities) that exist and whether these involve any ethical stipulations beyond those usual in the UK (provide details of any licenses or permissions required). Also specify whether there are any specific ethical issues raised by the local context in which the research activity is taking place, for example, particular cultural and/or legal sensitivities or vulnerabilities of participants.

(this box should expand as you type)

Use of documentation not in the public domain: Are any documents NOT publicly available?	NO	☒
	YES	☐

If Yes, please provide details here of how you will gain access to specific documentation that is not in the public domain and that this is in accordance with prevailing data protection law of the country in question and England and Wales.

(this box should expand as you type)

SECTION F: Scope of Research Activity

Will the research activity include:	YES	NO
Use of a questionnaire or similar research instrument?	☐	☐
Use of interviews?	☒	☐
Use of diaries?	☐	☒
Participant observation with their knowledge?	☒	☐
Participant observation without their knowledge?	☐	☒
Use of video or audio recording?	☐	☐
Access to personal or confidential information without the participants' specific consent?	☐	☒
Administration of any questions, test stimuli, presentation that may be experienced as physically, mentally or emotionally harmful / offensive?	☐	☒
Performance of any acts which may cause embarrassment or affect self-esteem?	☐	☒
Investigation of participants involved in illegal activities?	☐	☒
Use of procedures that involve deception?	☐	☒
Administration of any substance, agent or placebo?	☐	☒
Working with live vertebrate animals?	☐	☒
Other primary data collection methods, please explain in this box For example, 'focus groups'. Please indicate the type of data collection method(s) in this box and tick the accompany box.	☒	☐
Details of any other primary data collection method: Focus Group Interviews (this box should expand as you type)		

If NO to every question, then the research activity is (ethically) low risk and **may** be exempt from **some** of the following sections (please refer to Guidance Notes).

If YES to any question, then no research activity should be undertaken until full ethical approval has been obtained.

SECTION G: Intended Participants

Who are the intended participants:	YES	NO
Students or staff at the University?	☐	☒
Adults (over the age of 18 and competent to give consent)?	☐	☒
Vulnerable adults?	☐	☒
Children and Young People under the age of 18? (Consent from Parent, Carer or Guardian will be required)	☒	☐
Prisoners?	☐	☒
Young offenders?	☐	☒
Those who could be considered to have a particularly dependent relationship with the investigator or a gatekeeper?	☐	☒
People engaged in illegal activities?	☐	☒
Others (please identify specifically any group who may be unable to give consent) please indicate here and tick the appropriate box.	☐	☒
Other – please indicate here: (this box should expand as you type)		

Participant numbers and source	
Provide an estimate of the expected number of participants. How will you identify participants and how will they be recruited?	
How many participants are expected?	6 (this box should expand as you type)
Who will the participants be?	KS3 students. (this box should expand as you type)
How will you identify the participants?	Random sample within the class. (this box should expand as you type)

Information for participants:	YES	NO	N/A
Will you describe the main research procedures to participants in advance, so that they are informed about what to expect?	☒	☐	☐
Will you tell participants that their participation is voluntary?	☒	☐	☐
Will you obtain written consent for participation?	☒	☐	☐
Will you explain to participants that refusal to participate in the research will not affect their treatment or education (if relevant)?	☒	☐	☐
If the research is observational, will you ask participants for their consent to being observed?	☒	☐	☐
Will you tell participants that they may withdraw from the research at any time and for any reason?	☒	☐	☐
With questionnaires, will you give participants the option of omitting questions they do not want to answer?	☒	☐	☐
Will you tell participants that their data will be treated with full confidentiality and that, if published, it will not be identifiable as theirs?	☒	☐	☐
Will you debrief participants at the end of their participation, in a way appropriate to the type of research undertaken?	☒	☐	☐
If NO to any of above questions, please give an explanation			
<i>(this box should expand as you type)</i>			

Information for participants:	YES	NO	N/A
Will participants be paid?	☐	☒	☐
Is specialist electrical or other equipment to be used with participants?	☐	☒	☐
Are there any financial or other interests to the investigator or University arising from this study?	☐	☒	☐
Will the research activity involve deliberately misleading participants in any way, or the partial or full concealment of the specific study aims?	☐	☒	☐
If YES to any question, please provide full details			
<i>(this box should expand as you type)</i>			

SECTION H: Anticipated Risks

Outline any anticipated risks that may adversely affect any of the participants, the researchers and/or the University, and the steps that will be taken to address them.

If you have completed a full risk assessment (for example as required by a laboratory, or external research collaborator) you may append that to this form.

Full risk assessment completed and appended?

Yes

☐

No

☒

Risks to participants

For example: emotional distress, financial disclosure, physical harm, transfer of personal data, sensitive organisational information

Risk to Participant:

Pupil's self-esteem from not being chosen

Pupil's may feel under pressure to give a 'correct answer' to questions

Safeguarding issues

Anonymity

(this box should expand as you type)

How will you mitigate the Risk to Participant

Pupils to be selected randomly when chosen. All pupil's to be told about the research within the selected class.

Not having any leading questions within the focus group interview.

Consent forms will be provided to pupils and their parents/guardians. Whilst the research is carried out pupils will have at least two researchers present who have a DBS.

Pupil's involved and school involved will be anonymised. Any data collected will only be discussed by the research team and kept anonymised.

(this box should expand as you type)

If research activity may include sensitive, embarrassing or upsetting topics (e.g. sexual activity, drug use) or issues likely to disclose information requiring further action (e.g. criminal activity), give details of the procedures to deal with these issues, including any support/advice (e.g. helpline numbers) to be offered to participants. Note that where applicable, consent procedures should make it clear that if something potentially or actually illegal is discovered in the course of a project, it may need to be disclosed to the proper authorities

(this box should expand as you type)

Risks to investigator

For example: personal safety, physical harm, emotional distress, risk of accusation of harm/impropriety, conflict of interest

Risk to Investigator:

Allegations from pupils in the classroom whilst completing the research
 Possibility of being accused of favouritism by pupils who are not in the focus group
 Accusation of fabrication or falsification of data.
 Possible conflict of interest.
 Possible bias in the recording of data due to the teacher's relationship with pupils.

(this box should expand as you type)

How will you mitigate the Risk to Investigator:

Ensure all pupils feel involved by giving all pupils a consent form within the class.

Explain to pupils that they have been selected randomly for the focus group.

Collect the data legitimately.

The data will be recorded by a researcher who has no links to the school and therefore no bias.

(this box should expand as you type)

University/institutional risks

For example: adverse publicity, financial loss, data protection	
Risk to University: The need to uphold the good name of the university Not falsifying any data which could impact the representation and standard of the university Not behaving in a way that could impact the relationship between school and the university. <i>(this box should expand as you type)</i>	How will you mitigate the Risk to University: Ensure behaviour and standards whilst conducting the research is exemplary. Whilst also acting in a professional manner throughout. Collect data legitimately. Recording what the participants actually say. Acting in a professional manner throughout the research. <i>(this box should expand as you type)</i>

Disclosure and Barring Service			
If the research activity involves children or vulnerable adults, a Disclosure and Barring Service (DBS) certificate must be obtained before any contact with such participants.	YES	NO	N/A
Does your research require you to hold a current DBS Certificate?	☒	☐	☐

SECTION I: Feedback, Consent and Confidentiality

Feedback

What de-briefing and feedback will be provided to participants, how will this be done and when?

If pupil's request to see their own data, then this must be provided to them. Contact details will be provided to participants so that they can request their data on the consent forms.

(this box should expand as you type)

Informed consent

Describe the arrangements to inform potential participants, before providing consent, of what is involved in participating. Describe the arrangements for participants to provide full consent before data collection begins. If gaining consent in this way is inappropriate, explain how consent will be obtained and recorded in accordance with prevailing data protection legislation.

Pupils will be given ascent forms and parents/guardians will be given consent and information forms.

(this box should expand as you type)

Confidentiality / Anonymity

Set out how anonymity of participants and confidentiality will be ensured in any outputs. If anonymity is not being offered, explain why this is the case.

We will not the name the school involved so that the pupils are anonymised. Pupils will also be referred to as Pupil 1, Pupil 2 or Pupil 3. No identifiable characteristics will be mentioned as well in the research.

(this box should expand as you type)

SECTION J: Data Protection and Storage

In completing this section refer to the University's Research Data Management Policy and the extensive resources on the University's Research Data Management web pages (<http://uwtsd.ac.uk/library/research-data-management/>).

Does the research activity involve personal data (as defined by the General Data Protection Regulation 2016 "GDPR" and the Data Protection Act 2018 "DPA")?	YES	NO
"Personal data" means any information relating to an identified or identifiable natural person ('data subject'). An identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person.	☐	☒
If YES, provide a description of the data and explain why this data needs to be collected:		
<i>(this box should expand as you type)</i>		
Does it involve special category data (as defined by the GDPR)?	YES	NO
"Special category data" means sensitive personal data consisting of information as to the data subjects' – (a) racial or ethnic origin, (b) political opinions, (c) religious beliefs or other beliefs of a similar nature, (d) membership of a trade union (within the meaning of the Trade Union and Labour Relations (Consolidation) Act 1992), (e) physical or mental health or condition, (f) sexual life, (g) genetics, (h) biometric data (as used for ID purposes),	☐	☒
If YES, provide a description of the special category data and explain why this data needs to be collected:		
<i>(this box should expand as you type)</i>		
Will the research activity involve storing personal data and/or special category data on one of the following:	YES	NO
Manual files (i.e. in paper form)?	☒	☒
University computers?	☐	☒
Private company computers?	☐	☒
Home or other personal computers?	☐	☒
Laptop computers/ CDs/ Portable disk-drives/ memory sticks?	☐	☒
"Cloud" storage or websites?	☐	☒
Other – specify:	☐	☒
For all stored data, explain the measures in place to ensure the security of the data collected, data confidentiality, including details of password protection, encryption, anonymisation and pseudonymisation:		

The data will be recorded manually on paper form. Only the two researchers will have access to it as it will be put away in a locked drawer with only one researcher who will have access. The data will be destroyed after the completion of the research.
(this box should expand as you type)

All Data Storage		
Will the research activity involve any of the following activities:	YES	NO
Electronic transfer of data in any form?	☒	☐
Sharing of data with others at the University?	☒	☐
Sharing of data with other organisations?	☐	☒
Export of data outside the European Union or importing of data from outside the UK?	☐	☒
Use of personal addresses, postcodes, faxes, emails or telephone numbers?	☐	☒
Publication of data that might allow identification of individuals?	☐	☒
Use of data management system?	☐	☒
Data archiving?	☐	☒

If YES to any question, please provide full details, explaining how this will be conducted in accordance with the GDPR and DPA (and/or any international equivalent):

Only some of the data will be transferred electronically for marking purposes. This is through Turnitin.
(this box should expand as you type)

List all who will have access to the data generated by the research activity:

Me and my research partner
University Marker
(this box should expand as you type)

List who will have control of, and act as custodian(s) for, data generated by the research activity:

Myself and my research partner.
(this box should expand as you type)

Give details of data storage arrangements, including security measures in place to protect the data, where data will be stored, how long for, and in what form. Will data be archived – if so how and if not why not.

Data will be recorded on paper and put away in a locked drawer which only one researcher has the key for.
(this box should expand as you type)

Please indicate if your data will be stored in the UWTSD Research Data Repository (see <https://researchdata.uwtsd.ac.uk/>). If so please explain. *(Most relevant to academic staff)*

No
(this box should expand as you type)

Confirm that you have read the UWTSD guidance on data management (see https://www.uwtsd.ac.uk/library/research-data-management/)	YES	☒
	NO	☐
	YES	☒

Confirm that you are aware that you need to keep all data until after your research has completed or the end of your funding	NO	☐
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SECTION K: Declaration

The information which I have provided is correct and complete to the best of my knowledge. I have attempted to identify any risks and issues related to the research activity and acknowledge my obligations and the rights of the participants.

In submitting this application I hereby confirm that I undertake to ensure that the above named research activity will meet the University's [Research Ethics and Integrity Code of Practice](#)

Signature of applicant:	Callum Slade	Date: 17/12/19
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For STUDENT Submissions:

Director of Studies/Supervisor:		Date:
Signature:		

For STAFF Submissions:

Head of School/Assistant Dean:		Date:
Signature:		

Checklist: Please complete the checklist below to ensure that you have completed the form according to the guidelines and attached any required documentation:

☒	I have read the guidance notes supplied before completing the form.
☒	I have completed ALL RELEVANT sections of the form in full.
☐	I confirm that the research activity has received approval in principle
☐	I have attached a copy of final/interim approval from external organisation (where appropriate)
☐	I have attached a full risk assessment (and have NOT completed Section H of this form) (where appropriate) ONLY TICK IF YOU HAVE ATTACHED A FULL RISK ASSESSMENT
☒	I understand that it is my responsibility to ensure that the above named research activity will meet the University's Research Ethics and Integrity Code of Practice.
☒	I understand that before commencing data collection all documents aimed at respondents (including information sheets, consent forms, questionnaires, interview schedules etc.) must be confirmed by the DoS/Supervisor, module tutor or Head of School.
☒	I have deleted the guidance notes before submitting the PG2 for consideration

