

## STEM Directories Teacher Questionnaire

### Section 1. Introduction

Thank you for taking part in our survey. This questionnaire asks you about your experiences of Engagement and Enrichment (E&E) activities. E&E activities are many and varied. They include things like visiting lecturers, national competitions, or downloadable lesson plans; anything that adds to your current teaching.

At this stage we are only looking at E&E provision for KS3 and KS4 science, technology, engineering and maths (STEM) teaching, so please only complete the questionnaire if you teach these subject areas at this Key Stage.

The questionnaire should take approximately 20 minutes to complete. Most answers are multiple choice, but there are spaces for you to tell us about your experiences in your own words.

The information you provide will only be used for this research and all data will be anonymous and stored securely. The information will be combined with other participants' opinions and desk-based research to form the basis for a report which will be used by the STEM Directories. This report may also be publicly available.

### Section 2. About you

1. Which Local Authority area do you teach in?

(free text)

2. What Key Stage(s) do you teach?

KS3

KS4

3. How many years have you been teaching?

0-5

6-10

11-15

15+

4. Which of these subjects/KS do you teach regularly (please select no more than 3 answers)?

KS3 Applied science

KS3 Biology

KS3 Chemistry

KS3 Design and Technology

KS3 Engineering

KS3 ICT

KS3 Manufacturing

KS3 Mathematics

KS3 Physics

KS3 Science

KS3 Statistics

KS4 Applied science

KS4 Biology

KS4 Chemistry

KS4 Design and Technology

KS4 Engineering

KS4 ICT

KS4 Manufacturing

KS4 Mathematics

KS4 Physics

KS4 Science

KS4 Statistics

5. Which of these subjects/KS do you spend the most time teaching (please select one only)?

KS3 Applied science	KS4 Applied science
KS3 Biology	KS4 Biology
KS3 Chemistry	KS4 Chemistry
KS3 Design and Technology	KS4 Design and Technology
KS3 Engineering	KS4 Engineering
KS3 ICT	KS4 ICT
KS3 Manufacturing	KS4 Manufacturing
KS3 Mathematics	KS4 Mathematics
KS3 Physics	KS4 Physics
KS3 Science	KS4 Science
KS3 Statistics	KS4 Statistics

Section 3. How you currently use E&E activities

6. How often, on average, do you use E&E activities?

Once a week  
Once a term  
Once a year  
Every other year  
Never  
Other (please specify)

7. For the subject and KS you teach the most (identified in question 5) why do you include E&E activities in your teaching?

To have a change of teacher  
To have a change of environment  
E&E is readily available for this subject  
To access specialist equipment  
To access specialist expertise  
To get experience of a workplace environment  
To consider wider issues (eg careers, attitudes and values) around STEM subjects  
To introduce a topic  
To summarise / conclude a topic  
Other (please specify)

8. When you are looking for E&E activities what do you take into consideration to help you decide which to use?

	High priority	Low priority	No consideration	N/A
Content: attitude and values				
Content: skills				
Content: subject				
Format				
Price				
Recommendation by a colleague				
Reputation of the provider				
Where the provider is based				
Other (please specify)				

Section 4. How you currently use E&E activities (page 2)

9. Do you return to the same provider(s) repeatedly?

Yes

No (please skip the next question and go to question 11)

10. Why do you return to the same provider(s) repeatedly?

Ability to engage the students

Content: subject

Content: skills

Content: attitude and values

Format

Price

Reliability of the provider

Where the provider is based

Other (please specify)

11. When you search for E&E activities do you use terms from the...

National Curriculum (eg chemical and material behaviour)

Personal, learning and thinking skills

Schemes of work

Specific activity (eg solar powered buggies)

Specific provider

Subject area (eg physics)

Subject specific skills (eg PCR)

Other (please specify)

12. How do you look for an E&E provider?

- Approach a local industry
- Approach a local university
- Go to FutureMorph
- Go to Learning Grid
- Go to local STEMNet
- Go to STEM Directories
- Go to subject-specific organization eg Institute of Physics
- Internet search for subject / format / skills / KS
- Repeat providers used before
- Talk to a colleague in school
- Use an online forum to get peer recommendations
- Other (please specify)

13. When are you most likely to look for E&E resources?

- At the beginning of the year
- At the beginning of term
- The week before I teach the subject
- I don't look for them
- I use the same resources each year
- Other (please specify)

Section 5. Your perceptions of E&E provision

14. For the subject you mostly teach (identified in question 5) please rate the quality of the resources for teachers to use.

	Very good	Good	OK	Poor	Very poor	Don't use
Continuing professional development and training						
Websites and downloads						
Teaching packs, resources and lesson plans						
Interactive whiteboard resources						

15. For the subject you mostly teach (identified in question 5) please rate the quality of the resources that students can use.

	Very good	Good	OK	Poor	Very poor	Don't use
Websites and downloads						
Careers advice and mentoring						
Work experience and placements						

16. For the subject you mostly teach (identified in question 5) please rate the quality of the Out-of-School events that are available.

	Very good	Good	OK	Poor	Very poor	Don't use
Trips and visits						
Partnerships with universities and industry						
Summer schools, residentials and camps						

17. For the subject you mostly teach (identified in question 5) please rate the quality of the In-School events that are available.

	Very good	Good	OK	Poor	Very poor	Don't use
Lectures and talks						
Debates and discussions						
Science shows, interactives and demonstrations						
After school clubs and science clubs						
Competitions, quizzes and challenges						
STEM Ambassadors						

### Section 6. Your perceptions of E&E provision

18. If you have not used E&E provision, please tell us why.

I wasn't aware of them

We have a diverse range of resources in school

The activities are not relevant for my students

There aren't activities that support the subjects I teach

Price

Disrupts the teaching timetable

Lack of time to maximise the benefit from the activities

Activities I want to use are not available when I need them

Other (please specify)

19. Which subject areas which you would like to see more E&E activities available for?

	Like more E&E for this	Plenty of this is available	Don't need E&E for this	Don't teach this
Applied science				
Biology				
Chemistry				
Design and Technology				
Engineering				
ICT				
Manufacturing				
Mathematics				
Physics				
Science				
Statistics				

20. Which skills would you like to see more E&E activities for?

	Like more E&E for this	Plenty of this is available	Don't need E&E for this	Don't teach this
Career development (eg CV writing)				
Confidence building				
Creativity				
Group work and collaboration				
Laboratory techniques (eg aseptic technique)				
Problem solving				
Scientific enquiry / How science works				
Verbal communication skills				
Written communication skills				

21. Have you ever decided not to use an E&E activity because of the:

Content: attitude and values

Content: skills

Content: subject

Format

Price

Recommendation by a colleague

Reputation of the provider

Where the provider is based

Other (please specify)

Section 7. Your perceptions of E&E provision

22. For the subject you mostly teach (identified in question 5) please rate the number of the resources for teachers to use.

	Very good	Good	OK	Poor	Very poor	Don't use
Continuing professional development and training						
Websites and downloads						
Teaching packs, resources and lesson plans						
Interactive whiteboard resources						

23. For the subject you mostly teach (identified in question 5) please rate the number of resources that students can use.

	Very good	Good	OK	Poor	Very poor	Don't use
Websites and downloads						
Careers advice and mentoring						
Work experience and placements						

24. For the subject you mostly teach (identified in question 5) please rate the number of Out-of-School events that are available.

	Very good	Good	OK	Poor	Very poor	Don't use
Trips and visits						
Partnerships with universities and industry						
Summer schools, residentials and camps						

25. For the subject you mostly teach (identified in question 5) please rate the number of In-School events that are available.

	Very good	Good	OK	Poor	Very poor	Don't use
Lectures and talks						
Debates and discussions						
Science shows, interactives and demonstrations						
After school clubs and science clubs						
Competitions, quizzes and challenges						
STEM Ambassadors						

### Section 8. Your views on E&E provision

26. For the area and Key Stage you mostly teach (as indicated in question 5) do you think there is adequate provision of E&E?

Yes

No

Please explain your answer

27. Have you ever looked for an E&E activity and not found anything relevant? Please let us know what you were looking for.

28. The next section is about your experiences of the STEM Directory. Have you used the STEM Directory?

Yes

No

### Section 9. Your views of the STEM Directories

29. How many times have you used the STEM Directories?

1

2

3

3+

Never used (please click NEXT at the bottom of the page)

30. When using the STEM Directory, what are you most likely to be looking for?

Specific activity or provider

Activity in a certain place

Activity which covered skills

Activity for my KS

Activity for Gifted and Talented

Activity for SEN

Activity just for girls or boys

Just browsing

Specific aspect of the curriculum (please specify)

31. Last time you used the STEM Directory, did you find what you looking for?

Yes

Yes, too much to choose from

No

No – but found something else useful instead

Don't know



32. Which aspects of the STEM Directories do you find useful?

	Useful	Neutral	Not Useful	Don't Know
Everything being in one place				
Search engine provides relevant information				
The design and layout				
That activities have been evaluated				
The range of choice for my KS				
The range of choice for the subjects I teach				

33. Is there anything else you would like to see in the STEM Directory?

34. In comparison to other sources for E&E activities, how would you rate the following?

	About the same as other sources	Better than other sources	Worse than other sources
Number of resources			
Variety of resources			
Innovative resources			
Relevant search results			
Browseability			
Geographical spread of resources/activities			

### Section 10. End of survey

Thank you very much for completing this questionnaire. If you have any comments about the survey or the research please get in touch via [science.communication@uwe.ac.uk](mailto:science.communication@uwe.ac.uk).

35. We are looking for teachers who would be available to be interviewed for another aspect of this research project. If you would like to be interviewed, or know a colleague who would be available, please provide your contact details below. These will not be used other than to contact you to arrange the interview.

Alternatively, you can email us at the email address above.