

Astrophysics Trip Organisers Pack

Visit to 'Jodrell Bank Discover Centre'

This trip will give learners the opportunity to experience astrophysics being applied in the real world while considering possible careers in this field. Learners will be able to take part in A-level curriculum designed workshops, helping learners to learn something new while using real world data.

Rationale

The intention of this trip is to expose learners to an area of a STEM subject they may not have considered in Cumbria. The trip is designed to show learners a different careers within STEM and expose them to a HE campus and what studying this subject further might look like.

- The intervention activity will include 'learning' in a non-traditional education setting to develop target learner's academic capital.
- Learners will develop new skills, apply existing skills to new tasks and challenge their existing skill-sets (such as through participating in workshops at a level higher than their current educational level).
- Learners will have increased their individual confidence and developed positivity towards their future.
- The intervention activity will increase a learner's academic, social, cultural capital in relation to new environments.
- Learners will have meaningful interactions with HE Alumni through individual face-to-face contact with a University graduate. The rationale for this is that in the local CFE dataset only a third of Cumbrian learners said that they knew someone who has been to University.
- To enable learners to develop knowledge and skills in science, in a new location.

Aims

To allow the learners to explore the various careers in the field of astrophysics by observing on campus exhibitions and tailored workshops.

Outcomes

- Engage in discussions with staff to discuss their educational and employment pathways.
- Use their learner voice to provide feedback on the exhibitions and workshops experienced through the day.
- Learners to come away feeling they have learned something new

Planning the trip...

This section outlines the details of locations, contacts and possible cost of the trips. All costings can be used as a baseline are estimated from West Cumbria (Whitehaven).



Destination details...

Jodrell Bank Discovery Centre
The University of Manchester
Macclesfield
Cheshire
SK11 9DL

Website: <https://www.jodrellbank.net/>

Who to contact...

Email: jodrelleducation@manchester.ac.uk - Schools Team

Phone: 0161 306 9520 - all new bookings are to be made by phone

Costs to consider...

Below we have included an example of expenditure when this trip was arranged in the academic year 2018/19. Please be aware costing may have changed from when the trip was ran.

Item	Description	Cost
Coach to destination	Whitehaven to Jodrell Bank (return)	£460.00
Lunch	Provided by Cafe	£110.00
Jodrell Bank	15 learners for two workshops	£162.60
Goody Bags	15 goody bags	£82.50
Total Spend		£815.10

Planning the trip...

Timetable

Here is an example timetable which was used in June 2019.

A blank timetable is included in this pack for you to plan your own day.

Time	Activity	Description
07:00	Depart	Depart Destination from Whitehaven
11:00	Arrive at Jodrell Bank	Check in
11:15 - 11:40	Planet Pavilion Exhibition	Building 1
12:00 - 12:30	Lunch	Lunch provided by Jodrell Bank Cafe
12:40 - 15:20	Workshops and Further Exhibitions	2 workshops and 2 exhibitions
15:45	Depart	
19:00	Arrive	Whitehaven - rest stop included

Use the following **organisers checklist** to track your planning process. In the rest of this pack, we have included templates for registers and timetables as well as examples of evaluation tools, risk assessments and discussion points.



Organisers Checklist...

- ☐ Transport arranged
- ☐ Jodrell Bank Discovery Centre Booked
- ☐ Timetable completed
- ☐ Student register and emergency contacts completed
- ☐ Risk assessment completed
- ☐ Evaluation tools planned

Discussion points...



Below we've included some questions that were asked on the day and discussion points which took place on the bus and during the trip.

What is the likelihood you will consider a career in science in the future?

What part of the trip are you most looking forward to?

Would you consider a career in Astrophysics?

Would you have thought a centre like this could be a HE campus?

What three things would you like to answer by the end of the day?

What was the most memorable part of the day?

[illegible]

Risk Assessment considerations...

Below we have listed some of the considerations to take into account when conducting your risk assessment or the trip. These were some of the considerations most unique to the trip.

Hazard	List of controls, safety procedures
Collection point	Register of names with emergency contact details ticked off as students get on bus. Students will be collected from their respective schools. All are aware of the collection time/arrangements.
Road traffic collision	Coach from a reputable supplier. Coaches have seat belts that leaders ensure are used. Suitable embarkation points used (for example, coach park, onto wide pavement)
Service station break	Students to be briefed on timing and coach location. Students to be reminded about traffic safety before leaving the coach. Students are to be counted before the coach departs.
Choking and allergies	Staff members to collect and bring record of dietary requirements, allergies, and medical information. Café staff to be made aware of this information. First aid equipment carried.
Slips trips and falls	Initial briefing to all aboard to be mindful of surroundings and taking care getting on/off coach. Identify anyone who may need assistance. No open drinks. Check coach for hazards.
Bags/luggage causing obstructions or trip hazards.	Monitor aisles for obstructions and ensure emergency exit is kept clear. All must place bags in designated spaces/ areas.

Trip Timetable



Below we've included an example of the timetable used on the day. We have also included a blank timetable on the next page for your input. Please be aware Jodrell Bank will create an individual timetable tailored to each school, this is just a guide.

Time	Activity	Description
07:00	Depart from Whitehaven	Meet Learners at pick up point 10 minutes before departure
10:45	Arrive at Jodrell Bank and Check in	Free time to walk around the garden area
11:15 - 11:40	Planet Pavilion Exhibition	Building 1
12:00 - 12:30	Lunch	Provided by Jodrell Bank Cafe
12:40 - 13:40	Radio Telescope Workshop	Classroom, Building 2
13:40 - 14:00	Space Pavilion Exhibition	Building 2
14:00 - 14:30	Outside Areas and Exhibits	Lovell Telescope included
14:30 - 15:20	Pulsars Workshop	Events Space, Building 2
15:30 - 15:45	Walk to Coach	Collect Goody Bags
16:00	Depart	
19:00	Arrive	Whitehaven

Timetable Template

[illegible]

hello future.

			
			
			
			

For more information:

E: hellofuture@cumbria.ac.uk

T: 01228 634 760



@hellofutureccop

