

Liverpool John Moores University

Title: INTRODUCTION TO CORE SCIENCE
Status: Definitive
Code: **4021PS** (104334)
Version Start Date: 01-08-2016

Owning School/Faculty: Education
Teaching School/Faculty: Education

Team	Leader
Sean Doyle	Y

Academic Level: FHEQ4 **Credit Value:** 12 **Total Delivered Hours:** 25
Total Learning Hours: 120 **Private Study:** 95

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	11
Off Site	6
Tutorial	1
Workshop	6

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	AS1	Poster presentation (2000 words equivalent)	60	
Exam	AS2	Exam	40	1

Aims

This module aims to introduce the student to the national standards related to science with respect to QTS and to support the development of subject knowledge and understanding of the key science concepts related to 'Physical Processes'.

Learning Outcomes

After completing the module the student should be able to:

- 1 Articulate an informed view of the reasons for teaching science in the primary school with particular reference to the theoretical concept of constructivism.
- 2 Demonstrate a knowledge and understanding of the key principles relating to Physical Processes
- 3 Select appropriate resources and plan to use them safely in the design of schemes and lessons for classroom use.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Poster	2	3	
EXAM	1	2	3

Outline Syllabus

Theory and Practical activities relating to Sound, Light, Forces, Electricity, Earth and Space Constructivism

Misconceptions

Visit to Space Port

Use of the interactive whiteboard

Interactive worksheets

Medium term planning

Using QCA schemes of work

Short term (lesson) planning

Using concept cartoons

Resources and Organisation

Risk Assessment

Managing scientific enquiry through independent work, group work and whole class approaches

Learning Activities

Lectures

Work based learning - in schools

Out of class learning - Field Trips

Group work/discussions/workshop

Self-study/reading/audit

Practical work/investigations

Practical demonstrations

ICT including use of the interactive white board

Notes

This module aims to establish an understanding of how children learn science. It introduces the teaching of science in the primary school through a theme of 'physical processes' and seeks to build the skills of lesson planning and safe effective classroom organisation.