Table 2: Timeline, goals and milestones of the Getting to the CoRe of the Matter study

DATE	GOALS	MILESTONES
Phase 1 November- December 2013 Initial contact with school	 The researchers will: » establish a research partnership with the proposed school and key science education staff » co-develop the research and ethics proposals with the partner school » introduce the project to the school's wider teaching staff 	 » Preliminary meeting held with the proposed partner school and key science education staff and a research partnership established » Membership of the school's Science Development Group determined » Research and ethics proposals completed and approved by mid-December 2013. » First staff meeting for December 2013 and workshop session for January 2014 co-planned by the SDG and researchers » Staff informed and aware of the intent and nature of the research project for 2014 and beyond via staff meeting in early December 2013.
Phase 1 Mid-Late January 2014 Teacher only day	 The teachers with the support of the SDG and researchers will: » review and share information re the existing school science education programmes with a focus on 21st thinking skills and inquiry learning in science » determine goals for future science education programmes and the professional learning needs of teachers » identify relevant science education resources such as the MoE website, the Science Learning Hub and the Primary Connections programme » explore the 5Es approach to inquiry-based learning in science 	 » Self review data gathered » An agreed understanding of scientific inquiry and a framework for inquiry learning in science (including key components and/or indicators of inquiry learning in science) that will be used to inform all future phases of the study » Programme goals and teachers' professional learning needs established » Relevant science education resources identified and located » Primary Connections resources reviewed by teaching staff
Phase 2 February 2014 Staff meeting workshop session	The teachers with the support of the SDG and researchers will: » evaluate the potential use of the 5Es approach to inquiry-based learning in the school's science education programme	 » Findings of the Primary Connections reviews shared by teaching staff » Decision re the potential use of the 5Es approach in the school's science education programme made
Phase 3 Late March 2014 ½ day staff workshop	 The researchers will: » introduce teachers to Content Representation (CoRe) design as a curriculum planning and professional learning tool » The teachers with the support of the SDG and researchers will: » create a CoRe for inquiry learning in science using an agreed upon context(s) from the Science Learning Hub (SLH) 	» CoRe for inquiry learning in science based on a SLH) context(s) are produced
Phase 4 April – June	 The teachers with the support of the SDG and the researchers will: » plan and teach a science mini-unit using the CoRe an inquiry-learning approach and the SLH resource » engage in reflexive thinking throughout the teaching and keep a reflective journal 	 » A science mini-unit(s) is planned and taught in classrooms » Reflexive data on practice experiences gathered by teachers
Phase 5 June 2014 Focus Group meetings	The teachers with the support of the SDG and the researchers will: » evaluate the first trial including the process and outcomes	» Focus group interviews held with teaching teams to evaluate the first trial to date

The Science Development Group works over three terms to:

» Review existing teacher documentation/implementation practices using data collected in Phase 1 to inform future phases of the development.

» Develop a revised school implementation plan proposal for teacher consideration in Phase 5 and the final draft plan for 2015.

» Evaluate the use of CoRe design as an ongoing tool for curriculum design and teachers' professional learning; and resources such as Ministry of Education sites, Building Science Concepts Series, the Primary Connections programme, and the Science Learning Hub.