Electric Circuits

Keywords	Level	Time	Core Skills	Type of Activity
Electric	Senior Primary	1 - 2 hours	Designing and	Science
circuits	4 th - 6 th		making	experiments

Brief DescriptionStudents are introduced to electronics and electric circuits. Classroom kit with plug-and-play components will be used, with no tools or soldering required. Students will use electronics to control light and motors, create alarms and solve real world situations.				
Learning Objectives and Curricular				
 Links				
 Through investigation the child should be enabled to investigate current electricity by constructing simple circuits. Strand: Energy and forces Strand unit Magnetism and electricity 3rd /4th learn about electrical energy investigate current electricity by constructing simple circuits examine and group materials as conductors and insulators become aware of the dangers of electricity 5th/6th investigate current electricity by constructing simple circuits become aware of how some common electrical appliances work become aware of and understand the dangers of electricity 				



	Materials			
	Brainbox kits – hands on snap circuit kits			
	Instruction sheets and guides			
	Background Information / Skills			
	required			
₩	Background information for teachers: <u>https://www.sciencespace.ie/wp-content/uploads/2018/12/2002_electricity.pdf</u> Children's Skills: fine motor skills to manipulate small kit components			
	Summary Activity Description			
	 Explore how to construct a variety of circuits with Brainbox snap circuits Role of the fuse in safety Design circuits to solve real world problems 			
	Additional Information / Follow on Activities			
	AcclivitiesElectricity and simple circuits are explored in the following DPSMactivities:https://www.sfi.ie/site-files/primary-science/media/pdfs/col/dpsm_traffic_lights_activity.pdfhttp://www.sfi.ie/site-files/primary-science/media/pdfs/col/make_a_lighthouse.pdfhttp://www.sfi.ie/site-files/primary-science/media/pdfs/col/electric_quiz.pdfhttp://www.sfi.ie/site-files/primary-science/media/pdfs/col/electric_quiz.pdfhttp://www.sfi.ie/site-files/primary-science/media/pdfs/col/motor_vehicles.pdfThis online activity outlines the history of electricity and has severalinteractives to allow students to explore electricity and circuits:http://thefusebox.northernpowergrid.com/page/electricity/index.cfm			

