

Year Group	Activity	Description
P1 & 2	Scottish Engineering Special Leaders Award	Primary 1 & 2 pupils at our 3 associated Primaries will get a talk from an engineer (Amecfw) and they will help get the pupils enthused in engineering and STEM subjects (Plan for academic year 2017/18)
P5	Zombie Challenge	Primary 5 pupils from all 3 associated Primaries take part in the Zombie Challenge of Building a Shelter and plan an escape (Plan for academic year 2017/18)
P7	Bridges to Schools	All P7 take part in this activity building a 12m cable stay bridge at Dalziel High School.
P7, S1	Science & Technology Fayre	All S1 pupils are involved in this activity. They must work as a team and build a model and research an area of STEM.
S1	Formula100 Competition	Pilot programme run 2015 & 2016, will be rolled out to all S1 next year. An S1 pupil was shortlisted as one of three finalists for the 11-13 category May 2016.
	Scottish Engineering Special Leaders Award	All S1 pupils take part in this. Dalziel High School pupil was the winner from 3000+ entries in 2014. June 2016 – 4 S1 pupils shortlisted.
S1-6	Offshore Europe	Oil and Gas conference was a fantastic interactive learning experience.
S2	Careers Convention	Careers convention that has companies from all industries especially STEM taking part and delivering seminars to our S2 pupils prior to choosing options for S3. Amecfw personnel support this.
	Engineering Club	Engineering Club encourages pupils to develop skills such as soldering etc. Pupils are also working on launching a high-altitude balloon.
	Weir Group Competition	Pupils take part in the competition looking at Scottish engineering legacy. Amecfw personnel help the pupils.

	ECITB	ECITB gave a roadshow about opportunities in engineering, showing showed the variety of career opportunities within engineering. This was supported by our business partners Amec Foster Wheeler (Amecfw).
S2 – S4	Design a Water Pump Competition	<p>Pupils are designing a working water pump. The pump has to be 80% made on a 3D printer.</p> <p>Amecfw personnel come to the school to</p> <ul style="list-style-type: none"> • teach about water pumps and their designs • help with the cad drawings •
S2, S3	Engineer Discussion / Seminars	Seminars / Engineer talks – Business partner, Amecfw support this.

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S4	Engineer Talks	Seminars with Amecfw personnel on engineering.
	Nat 4 Engineering Course	With the help of New college Lanarkshire (NCL) a 2 year National 4 qualification has been delivered within one year at the college. 16 pupils have successfully completed the pilot in 2014/15 and this course is now being offered in 2015/16.
	Mock Interviews	Business partner Amecfw help prepare pupils for interview for STEM job opportunities.
	Arkwright Scholarship	Amecfw helped with preparation of application forms, discussion of projects and interview techniques. 4 pupils reached the final interview stage in 2014/15 with 2 pupils gaining an Arkwright Scholarship. April 2016, 4 pupils have reached final interview stage.
S5	Space School	Dalziel High School encourage S5 pupils to take part in Scottish Space School. 1 pupil being successful in 2012/13, 3 pupils in 2013/14. We have prepared and helped 7 pupils apply for 2015/16.
	Nuffield Placement	Encouraging pupils to apply for Nuffield placements in STEM. We had 1 application 2014/15 and 2 successful applications in May 2016.
	Nat 5 Engineering Course	Due to the success of the Nat 4 Engineering course we have extended vocational education in subjects such as introducing Nat 5 Engineering course and Construction.
	Foundation Apprenticeship	2 year qualification at EKGTA facility (East Kilbride). The pupils attend 2 afternoons a week and at the end of S6 they will gain a qualification that allows them to jump to the 2 nd year of a Modern Day apprenticeship.
	Amecfw Work Placement	Our business partner, AMecfw, offers a one week work placement for 2 S5 pupils at the Glasgow facility during the summer holidays.

S6	Amecfw Work Placement	<p>With our business partner, Amecfw we offer Work Experience at the Aberdeen facility over the summer. 3 S6 pupils are selected after a series of interviews.</p> <ul style="list-style-type: none"> • Paid work placement in Aberdeen for 3 pupils • Free accommodation supplied by UNITE. <p>This allows the pupils to experience working in a large scale global engineering company. Success of this programme has been the fact that some pupils changed their choice of university courses to STEM courses.</p>
	National Engineering & Science Competition	S6 pupil entered the NESC (2014) and was a runner-up. He was mentored by our STEM team in Dalziel High School and our business partner, Amecfw.