

Year Group	SDC Strands and Curriculum Links			
	Be Professional (Character and Community)	Be Inclusive (Diversity and Relationships)	Be a Learner (Aspirations and Economics)	Be Knowledgeable (Wellbeing and Health)
Year 7	<p>STEMettes Club (promoting girls in physics)</p> <p>Science Club after school with primary focus on making physics more interesting and fun to appeal to girls. Proportion of experiments designed to be carried out at home safely.</p> <p>Science Assembly School Workshops - Freshwater Theatre Company</p> <p>London Zoological Garden</p> <p>National Literacy - Mission to Mars. STEM reading challenge to exercise scientific and imaginative thought</p>	<p>Aim to inspire curiosity and raise standards in Science education for young people.</p> <p>Class teachers to provide research project opportunities for groups to make <i>innovations in science</i> presentations to the class and using ICT skills in science.</p> <p>Implement impact of British influence of science and technology on the world highlighted in lessons and on through documentaries on Google Classroom</p>	<p>Aim to directly link first-hand experience with classroom ideas</p> <p>Educational – This is linked to KS3 science curriculum; trip will be tailored to the specific needs of our curriculum.</p> <p>Physics and engineering trip for HPA girls to get a flavour for applications of STEM in real world situations. To begin awareness of career paths using physics.</p> <p>Highlighting and discussing applications of taught science to varieties of STEM careers</p>	<p>Lessons on health and fitness – students to understand how to train effectively to keep fit.</p> <p>Target lessons to focus on self preservation:</p> <p>Sexual health</p> <p>Arrange for some pupils to attend the <i>Tinder Sticks</i> organisation to use their science in bushcraft with an impact to show age old scientific applications to problem solving and wilderness survival.</p> <p>History of science documentaries added to Google Classroom</p> <p>Science Club – Planning, designing and building structures Challenge</p>

				<p>Reminder given to pupils of the <i>Ask a Doctor</i> sessions after school at the The Health Spot (spotlight).</p>
<p>Year 8</p>	<p>STEMettes Club (promoting girls in physics) Science Club after school with primary focus on making physics more interesting and fun to appeal to girls. Proportion of experiments designed to be carried out at home safely.</p> <p>London Aquarium</p> <p>Science Assembly School Workshops - Freshwater Theatre Company</p> <p>National Literacy - Mission to Mars. STEM reading challenge to exercise scientific and imaginative thought</p>	<p>Curriculum link – Food chain/food web and variation</p> <p>Aim to inspire curiosity and raise standards in Science education for young people.</p> <p>Implement impact of British influence of science and technology on the world highlighted in lessons and on through documentaries on Google Classroom</p>	<p>Aim to directly link first-hand experience with classroom ideas</p> <p>Highlighting and discussing applications of taught science to varieties of STEM careers</p>	<p>Theme:</p> <p>Target lessons to focus on self preservation: Food and diet</p> <p>Arrange for some pupils to attend the <i>Tinder Sticks</i> organisation to use their science in bushcraft with an impact to show age old scientific applications to problem solving and wilderness survival.</p> <p>History of science documentaries added to Google Classroom</p>

				<p>Science Club – Planning, designing and building structures Challenge</p> <p>Reminder given to pupils of the <i>Ask a Doctor</i> sessions after school at the The Health Spot (spotlight).</p>
<p>Year 9</p>	<p>STEMettes Club (promoting girls in physics) Science Club after school</p> <p>National Space Centre Leicester</p> <p>East Sussex Observatory</p> <p>Careers in Science</p> <p>VaxHub presentation to professors to whole year group.</p> <p>National Literacy - Mission to Mars. STEM reading challenge to exercise scientific and imaginative thought</p>	<p>Educational - Curriculum-linked learning resources designed to work in the classroom for AQA Physics.</p> <p>WISE/STEM External speakers via East London Coordinator</p> <p>Implement impact of British influence of science and technology on the world highlighted in lessons and on through documentaries on Google Classroom</p>	<p>Talks with STEM professionals as part of the year 9 option process.</p> <p>Vaxhub workshops and chosen pupils to attend trips to UCL lead by vaccination research scientists.</p>	<p>Educational lectures/activities/projects</p> <p>Target lessons to focus on self preservation: drugs</p> <p>Vaxhub workshops and chosen pupils to attend trips to UCL lead by vaccination research scientists.</p> <p>Science Club – Planning, designing and building structures Challenge</p> <p>Reminder given to pupils of the <i>Ask a Doctor</i> sessions after school at the The Health Spot (spotlight).</p>

<p>Year 10</p>	<p>STEMettes Club (promoting girls in physics) Science Club after school</p> <p>Kingston University London Royal Observatory Greenwich – London</p> <p>Road Show Project</p> <p>Centre of the Cell - QMUL Whitechapel campus</p> <p>National Space Centre Leicester</p> <p>VaxHub presentation to professors to whole year group.</p>	<p>Career awareness specifically for girls in physics related careers</p> <p>Promoting the number of female students applying for Physics A level</p> <p>To promote STEM within subject choice mix and encourage more students to consider science at A-level.</p> <p>Educational - Curriculum-linked learning resources designed to work in the classroom for AQA Physics.</p> <p>Implement impact of British influence of science and technology on the world highlighted in lessons and on through documentaries on Google Classroom</p>	<p>Link with external providers e.g WISE (Women In Science and Engineering) and STEM</p> <p>Curriculum-linked learning resources designed to work in the classroom.</p> <p>Educational - workshops, mentoring and revision programmes</p> <p>VaxHub presentation by vaccination professors to whole year group.</p> <p>Promoting a culture of independent learning by suggested videos on Google classroom and educational websites and selling revision guides and exam style work books and reminded in lesson.</p>	<p>Students make informed decisions on their career pathways. Links KS4 to KS5 curriculum and learning journey.</p> <p>VaxHub presentation by vaccination professors to whole year group.</p> <p>Target lessons to focus on self preservation: Infection and disease prevention</p> <p>Reminder given to pupils of the <i>Ask a Doctor</i> sessions after school at the The Health Spot (spotlight).</p>
<p>Year 11</p>	<p>STEMettes Club (promoting girls in physics) Science Club after school</p> <p>Road Show Project</p> <p>Lab on Wheels</p>	<p>To promote STEM within subject choice mix and encourage more students to consider science at A-level.</p> <p>The purpose of the 'Lab-on-Wheels' is to make Heritage Science as accessible as possible, bringing the innovative science</p>	<p>Link with external providers e.g WISE (Women In Science and Engineering) and STEM</p> <p>Curriculum-linked learning resources designed to work in the classroom.</p> <p>Links with external community provider UCL.</p>	<p>To interact with PhD students and learn more about current research</p>

		<p>developed by SEAHA students to the places where it is most needed.</p> <p>Implement impact of British influence of science and technology on the world highlighted in lessons and on through documentaries on Google Classroom</p>	<p>Promoting a culture of independent learning by suggested videos on Google classroom and educational websites and selling revision guides and exam style work books and reminded in lesson.</p>	<p>Reminder given to pupils of the <i>Ask a Doctor</i> sessions after school at the The Health Spot (spotlight).</p>
Year 12	<p>Centre of the Cell - QMUL Whitechapel campus</p> <p>Epping Forest</p> <p>Millennium Bridge</p> <p>Chemistry Race Organised by Salters Festival of Chemistry Outreach</p>	<p>Educational - workshops, mentoring and revision programmes</p> <p>Ecology Field trip</p> <p>Cambridge Chemistry Race is a new chemistry competition for teams of three to five sixth-form pupils. The teams race against each other to solve unusual chemistry problems.</p>	<p>STEM aviation trips</p>	<p>Curriculum and career</p> <p>Jack Petchey</p>
Year 13	<p>QMUL Whitechapel campus</p> <p>Greenwich Observatory</p> <p>Chemistry Race Organised by Salters Festival of Chemistry Outreach</p>	<p>Spectroscopy Master class</p> <p>Cambridge Chemistry Race is a new chemistry competition for teams of three to five sixth-form pupils. The teams race against each other to solve unusual chemistry problems.</p>	<p>Links to curriculum spectroscopy – and links to community provider QMUL.</p> <p>STEM aviation trips</p> <p>Careers in STEM</p>	<p>Curriculum and career</p> <p>Female physics students promoting physics to earlier years and assist with Physics and engineering trips for KS4 HPA girls.</p>