

Lesson Plan

Area of focus	STEM Careers
Lesson plan title	STEM Careers in Eyecare
Time needed	60 minutes
Year group	Year 10+
Lesson plan overview	Students will research a range of eyecare careers linked to STEM subjects and present back to class what information they have found.
Learning outcomes	<p>Students will better be able to link the learning in the classroom to a range of careers they may be interested in</p> <p>Students will see how STEM subjects fit into so many careers and that with a good understanding of STEM subjects the world of work opens up to them</p>
Frameworks	<p>Gatsby Benchmark 4 Linking Curriculum Learning to Careers: All teachers link curriculum learning with careers. Science, technology, engineering and mathematics (STEM) subject teachers highlight the relevance of STEM subjects for a wide range of future career paths. By the age of 14, every student has had the opportunity to learn how the different STEM subjects help people to gain entry to a wide range of careers.</p> <p>CDI - 4. Linking curriculum learning to careers All teachers should link curriculum learning with careers. STEM subject teachers should highlight the relevance of STEM subjects for a wide range of future paths.</p> <p>CDI Framework areas of learning linked to the achievement of the benchmark performance indicators: 7, 11, 16</p> <p>Gatsby Benchmark 5: Encounters with Employers and Employees: Every student should have multiple opportunities to learn from employers about work, employment and the skills that are valued in the workplace. Students should participate in at least one</p>

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	<p>meaningful encounter with an employer every year between years 7-13.</p> <p>CDI-5. This can be through a range of enrichment activities including visiting speakers, mentoring and enterprise schemes.</p> <p>CDI Framework areas of learning linked to the achievement of the benchmark performance indicators: <i>3, 5, 6, 7, 9, 11, 12, 17</i></p> <p>Self-awareness, self-determination and self-improvement underpin aspiration, ambition and achievement in careers, learning and the world of work Exploring, investigating and understanding the opportunities, responsibilities and experiences that careers and the world of work have to offer is a prerequisite for successful planning and development Developing a range of career management, employability and enterprise skills is the key to meeting challenges, making progress and managing change.</p>
<p>Resources required</p>	<p>Internet and computer access</p> <p>Pens and paper</p> <p>Presentation equipment - PowerPoint, flip chart paper etc.</p>

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Time	Description
2 minutes	<p>Introduce Youth Employment UK to students</p> <p>Youth Employment UK provides free membership called <i>Young Professional</i> to all 14-24 year olds in the UK. This membership is accessed online and helps young people to build up skills for life and work.</p> <p>In addition, Youth Employment UK is home to a growing Careers Hub that provides useful information about the world of work, careers, pathways, salary information, tips, advice and much more. Students are going to use the Careers Hub today to learn more about the world of work, and to build their skills for making career choices, researching information and improving their job searching skills.</p> <p>https://www.youthemployment.org.uk/</p>
3 minutes	<p>Introduce Careers in Eyecare to students</p> <p>https://www.youthemployment.org.uk/careers-hub-employer/abdo-careers-in-eyecare/</p> <p>Show the 15 key sectors in the UK and ask students where they think eyecare may be placed:</p> <ul style="list-style-type: none"> • Agriculture, Environmental & Animal Care • Business & Administration • Catering & Hospitality • Childcare & Education • Construction • Creative & Design • Digital • Engineering & Manufacturing • Finance, Accounting & Legal

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	<ul style="list-style-type: none"> • Hair & Beauty • Health & Science • Protective Services • Sales, Marketing & Procurement • Social Care • Transport & Logistics <p>It is anticipated that they will choose Health & Science.</p>
2 minutes	<p>Set the task</p> <p>Tell students that they are going to research some careers on the Careers in Eyecare pages. In pairs or small groups they are to find a career where one needs to have a good understanding of one or more STEM subjects. You may find it quicker to allocate careers to groups. Once they have chosen their career, they are then going to research it and present what they find back to the class in a 1 minute presentation. They can use paper or IT-based presentation tools to do their presentation.</p>
5 minutes	<p>Students make their career choices from the Careers in Eyecare page. You may choose to allocate careers to the pairs/groups as this will be quicker and give a wider spread of careers.</p>
20 minutes	<p>Whilst researching their career, students prepare their presentation. Ask them to present information such as:</p> <ul style="list-style-type: none"> • description of that job • what it involves • what qualifications you need • how much might you earn in this career • name a local employer in eyecare • name a national employer in eyecare • which of the 15 key sectors do they think the job fits into (point out that there may be more than one) • what lessons at school could be the most useful for this career and why?
15 minutes	<p>Students deliver their presentations</p>
10 minutes	<p>Plenary discussion to include:</p>

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	<ul style="list-style-type: none"> ● revisit the 15 key sectors in the UK and ask which sectors the roles fit into <p>It is anticipated there will be roles within:</p> <ul style="list-style-type: none"> ○ Business & Administration (practice manager) ○ Creative & Design (frame design) ○ Engineering & Manufacturing (lab technician, frame manufacturing, lens manufacturing, equipment) ○ Health & Science (all roles) ○ Sales, Marketing & Procurement (Frame sales rep) <ul style="list-style-type: none"> ● What have students learnt about the world of work? ● What have students learnt about careers in eyecare? ● Are there more roles and careers than they thought? ● Did anyone find a career they like?
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Suggested next steps:

- Get students to register as Young Professional Members so that they can benefit from the additional support that Young Professional Members get.
- Arrange a visit to an eyecare employer in nearby.
- Consider eyecare employers when planning work experience placements.

Final Notes

Don't forget to share this lesson plan and the Youth Employment UK resources with other colleagues