GATSBY BENCHMARK 4:

LINKING CURRICULUM LEARNING TO CAREERS

THE THREE MAIN WAYS OF DELIVERING CAREERS IN THE CURRICULUM ARE

- Providing career learning as a subject in its own right: in this approach careers content is delivered as a discrete curriculum, e.g. careers education or as part of PSHE.
- Incorporating career learning within other subjects: In this approach careers content is delivered through subjects, e.g. personal financial planning skills taught in maths, self-presentation skills taught in English.
- Organising career learning through co-curriculum activities (e.g. enrichment activities strongly connected to the formal curriculum: In this approach careers content is delivered through informal and voluntary learning activities which have a strong connection to the curriculum e.g. STEM clubs to build on student's interest in science, technology, engineering and maths.

I have provided a couple of websites for each subject area (in alphabetical order) that you may find useful when thinking about linking curriculum to careers in light of 'national careers week' and the Gatsby Benchmarks.

ART & DESIGN	The Teacher's Guide
	Free technology resources, including lesson plans and guides.
	http://www.theteachersguide.com/
	The Virtual Instructor
	Lessons on topics including graphite drawing, coloured pencil drawing, pastel drawing. Free digital art lessons on Adobe Photoshop, Adobe Illustrator, and Adobe Flash.
	http://thevirtualinstructor.com/

BUSINESS

BASE

BASE is a free team-based national business competition for 16-17 year olds across the UK. It gives students the chance to put the skills and knowledge they've learnt at school into practice alongside real-life business scenarios. The first round is an online game and video presentation, and the second round is a team challenge at the National Final.

https://careers.icaew.com/campaigns/base-competition

Business Case Studies

Resources including case studies from real world companies.

http://businesscasestudies.co.uk/#axzz3fNOgsO2y

Institute of the Motor Industry

Resources include KS3 and KS4 teacher and student lesson plan guides and downloadable business and enterprise competitions.

http://www.autocity.org.uk/index.php/schools-teachers-career-advisors/

McDonald's Business Studies Challenge

Business studies challenges using real business issues through videos and case studies.

https://www.mcdonalds.com/gb/en-gb/teachers/business-studies.html

BP Educational Service

Two free resources for business teachers to use which are suitable for ages 14-19. The first resource is a collection of case studies on BP which offers an insight into how a global business works. The second resource is an Enterprise Trading game.

https://bpes.bp.com/resources/list/secondary?ageGroup%5b%5d=6&topic%5b%5d=31

The Rediscover Project

In these two consecutive cross-curricular lessons, your pupils will learn exactly what Digital Business means, and discover just how easy digital entrepreneurialism can be.

https://therediscoverproject.co.uk/resources/

DRAMA

Creative & Cultural Skills

Creative & Cultural Skills is a free resource for anyone that wants to work in a creative career. The website offers information on job and training opportunities within the creative sector and also provides advice.

https://ccskills.org.uk/

Into Film

Into Film provide resources to support primary teachers in developing pupils' awareness of the film industry and the wide variety of careers that are open to them. The resource is most suitable for young people aged 7-11 and can be used in any educational setting across the UK.

https://www.intofilm.org/resources/102

National Theatre

Free resource packs on discovering more about the productions and plays staged by the National Theatre and getting an insight into theatre making.

https://www.nationaltheatre.org.uk/

Royal Shakespeare Company

Free teaching resources for KS1 to KS5 to aid in the teaching of drama.

https://www.rsc.org.uk/education/teacher-resources

Theatrecraft

TheatreCraft provides young people aged 16-30 with all the information, resources and advice on careers in backstage roles in Theatre. TheatreCraft is able to come and talk at careers events and assemblies in school to tell students about the job opportunities in Theatre. The industry is experiencing a shortage of workers in both offstage and backstage roles, many of these are technical and managerial roles that would appeal to students interested in STEM and Business Studies as well as the Arts.

https://www.theatrecraft.org/where-next/#learning-resources

The Rediscover Project

Two cross-curricular media lessons to help your pupils to deconstruct the anatomy of a viral video and learn how to create one for themselves.

https://therediscoverproject.co.uk/resources/

ENGLISH

Institute of the Motor Industry

Resources include KS3 and KS4 teacher and student lesson plan guides.

http://www.autocity.org.uk/index.php/schools-teacherscareer-advisors/

National Literacy Trust

National Literacy Trust share analysis, promote best practice and provide support and resources for schools including news, research, events, policy, competitions and resources. Teaching resources are available for early years, primary and secondary.

http://www.literacytrust.org.uk/schools_teaching

Premier League Primary Stars

Resources using the inspiration and fun of sport to connect pupils' learning to the world around them.

https://plprimarystars.com/resources?filter%5Bsubject%5D%5B %5D=English

TES

The TES website provides free resources for English teachers to support students with public speaking with a range of a range of games, presentations and lessons, designed to help pupils build the confidence they need to present with ease.

https://www.tes.com/teaching-resources/blog/supportingstudents-public-speaking

The Leaders Award

The Leaders Award competition is a curriculum-based invention project that helps build English, literacy, design and technology skills. "If you were an engineer what would you do?". Every year, pupils between the ages of 3 and 19 interview engineering professionals to understand their creative problem-solving skills and careers. The pupils are tasked with identifying a problem, designing a solution to it and writing a letter explaining why engineers should build it. Universities around the UK select designs and bring them to life. Last year we engaged with over 49,000 children across the UK.

https://leadersaward.com/

The Rediscover Project

Two cross-curricular lesson plans where pupils will learn how to create blogs and vlogs of their own, and even try it out for themselves.

https://therediscoverproject.co.uk/resources/

The Publishers Association

Resources available in the careers section.

https://www.publishers.org.uk/activities/publishing-careers/

Wonder by R.J Palacio

An educational resource by Random House. WONDER is the funny, sweet and incredibly moving story of Auggie Pullman. Born with a terrible facial abnormality, this shy, bright tenyear-old has been home-schooled by his parents for his whole life, in an attempt to protect him from the stares and cruelty of the outside world. Now, for the first time, Auggie is being sent to a real school - and he's dreading it. The thing is, Auggie's just an ordinary kid, with an extraordinary face. But can he convince his new classmates that he's just like them, underneath it all? In its assured simplicity and boldness it also has the power to move hearts and change minds.

YES Programme

Key stage 2 focussed programme. Schools pay an annual subscription fee to make the YES Programme accessible to all staff, both in and outside of school.

http://www.yesprogramme.co.uk/

Young Writers

Young Writers aims to encourage young people to engage in creative writing. The organisation works with schools running poetry and creative writing competitions and providing free teaching resources.

https://www.youngwriters.co.uk/

GEOGRAPHY

ECITB

Resources exploring key aspects of geography through real world examples.

https://www.ecitb.org.uk/publications/

Geography Association

Primary and Secondary resources providing up-to-date content and activities

http://geography.org.uk/resources/transport-and-logistics-cilt-resources/

Practical Action

Resources including case studies that are suitable for a range of topics in the Geography as well as videos, classroom activities and posters.

https://practicalaction.org/geography

Royal Geography Society

Free resources for KS1-KS5, offering lesson/topic plans and interactive learning resources.

https://www.rgs.org/schools/teaching-resources/

Thomson Better World Detectives

'Better World Detectives' KS2 focussed flexible lesson plans and a range of free multimedia alongside worksheets, to give pupils an in-depth understanding of sustainable tourism.

http://betterworlddetectives.co.uk/teacher-resources.html

Young People's Trust for the Environment (TPTE)

Free resources aimed at KS1 and KS2 pupils to encourage understanding of the environment and the need for sustainability.

http://ypte.org.uk/lesson-plans/browse

HISTORY

Historical Association

Resources for KS3 to A Level. The site also includes teacher development resources, CPD and Quality Mark information.

https://www.history.org.uk/secondary/categories/60

Teachithistory

Resource libraries for 11-18 year olds offering nearly 2000 pages of materials.

https://www.teachithistory.co.uk/free-samples

IT/COMPUTER

BCS

BCS, The Chartered Institute for IT website includes information for students at school, college, post 16 and university about careers available within the IT sector.

https://excitingcareers.bcs.org/films/next2.php

Computing at School (CAS)

Strategic guidance for Computing education in schools, with a significant but not exclusive focus on the Computer Science theme within the wider Computing curriculum.

http://www.computingatschool.org.uk/

IT Industry Careers Resource Pack

IT Industry Careers packs for inspiring young people about the possibilities and the education routes that can lead to rewarding tech careers.

https://www.mykindafuture.com/Educator/ResourcePreview/89/it-industry-careers-resource-pack

Institute of the Motor Industry

Resources include KS3 and KS4 teacher and student lesson plan guides.

http://www.autocity.org.uk/index.php/schools-teacherscareer-advisors/

Mr Fraser

Resources for GCSE, A-Level and IB Computing. There are a few resources aimed at KS1, KS2 & KS3.

http://www.mrfraser.org/

National Centre for Computing Education

To meet the growing demand for digital skills, the National Centre for Computing Education has been set up to make a significant contribution to the teaching of computing education throughout England. They support the teaching of computing in schools and colleges across all key stages, giving teachers the subject knowledge and skills to establish computing as a core part of the curriculum.

https://teachcomputing.org/

Tech Partnership

Free impartial research and world-class market intelligence. From business trends to skills analysis resources. Including current trends, forecasts for the tech labour market, employment data and factsheets.

https://www.thetechpartnership.com/Resources/

The Rediscover Project

Two consecutive lessons, where your pupils will apply the basics in computational thinking to both real world and digital tasks. They will then learn how to use these thought processes to solve 'real world' problems, before using them to design a simple maze game.

https://therediscoverproject.co.uk/resources/

STEM Learning

STEM Learning resources specific for computing.

https://www.stem.org.uk/resources/search?f[0]=field_subject:92

MATHS

Bowland Maths

Free KS3 resources to support rich problem-solving activities

http://www.bowlandmaths.org.uk/projects/index.html

Finding Ada

Ada Lovelace Day is an international celebration of the achievements of women in STEM and create new role models for both girls and women studying or working in these areas.

http://findingada.com/resources/resources-for-schools/notes-for-teachers/

Further Mathematics Support Programme (FMSP)

KS3/4 resources to support learners general skill building and KS4 resources encouraging a rich understanding of Maths, develop problem solving skills and encourage post 16 study of Maths.

http://furthermaths.org.uk/gcse

HMRC: Tax Education for Schools

Tax Facts is a free set of resources from HMRC to teach young people about tax. It consists of animations and teaching packs to guide lessons for PSHE, citizenship and maths. Contact hmrc.taxeducation@hmrc.gov.uk for more information and support.

HMRC have produced a playlist of short films to educate young people about tax. The films include facts about working for yourself, starting your first job; and there is a primary film on tax facts for the younger audience.

https://www.youtube.com/playlist?list=PL8EcnheDt1zjoRLU0I8 WEKqqNzdR3w2xl

Institute of the Motor Industry

Resources include KS3 and KS4 teacher and student lesson plan guides.

http://www.autocity.org.uk/index.php/schools-teachers-career-advisors/

Mathematics in Education & Industry (MEI)

Free resources and support materials for teachers and students.

http://mei.org.uk/free-resources

Maths Careers

The Institute of Mathematics and its Applications is the professional and learned society for qualified and practising mathematicians. The website includes careers information for 11 year olds up to adult learners who are interested in a career involving maths.

http://www.mathscareers.org.uk/

More Maths Grads

Careers path focussed routes for Maths students.

http://www.moremathsgrads.org.uk/maths-jobs.html

Motivate

Free resource packs for KS2-4, exploring maths in real contexts including medical research, healthcare and archaeology.

http://motivate.maths.org/content/

My Personal Finance Skills

My Personal Finance Skills programme offers schools free financial education workshops delivered by local professionals. Themes include my future finances, staying safe from financial scams, understanding your first payslip and understanding attitude to risk and how that impacts decision making. The programme also includes an interactive workshop, Discover Fortunes, which highlights careers opportunities in personal finance.

https://www.youtube.com/watch?v=otaNDsykYc8&t=4sv

National Centre for Excellence in the Teaching of Mathematics

Teachers, can check and refine their subject knowledge and pedagogy, access a vast archive of classroom-based research, and exchange views and experience. Face to face and online support for all schools, colleges, organisations and individuals with a professional development role as providers of CPD for teachers of maths in all settings, providing a framework for quality assurance of that provision.

https://www.ncetm.org.uk/

NRICH Enriching Mathematics

Free maths enrichment and education resources covering early years right through to the 1st year of University. The resources are designed to build students' confidence, mathematical reasoning, thinking skills and ability to take the initiative.

http://nrich.maths.org/frontpage

Premier League Primary Stars

Resources using the inspiration and fun of sport to connect pupils' learning to the world around them.

https://plprimarystars.com/resources?filter%5Bsubject%5D%5B %5D=Maths

Royal Statistical Society

Resources available including: data sets, workshop resources and links to other useful websites that have resources.

https://www.statslife.org.uk/resources/for-teachers

STEM Learning

STEM Learning specific resources for Maths.

https://www.stem.org.uk/resources/search?f[0]=field_subject :52

The Central Maths Hub

The Central Maths Hub, coordinated by the NCETM, and part of the National Maths Hubs network, works in partnership with local schools, colleges, Universities, CPD providers, maths experts and employers to drive improvement in maths education. Projects and opportunities are available across Primary, Secondary and Post 16.

https://www.centralmathshub.com/

University of Cambridge Maths and Sport Millennium Mathematics Project

Free resources for KS1-5 exploring maths and science through the Olympic and Paralympic Games for a Maths and Sport project.

http://sport.maths.org/content/

Wild Maths

mathematical games, activities and stories, encouraging pupils to think creatively aimed at ages 7 to 16, designed for children and teenagers working individually, or with a parent.

http://wild.maths.org/

MODERN FOREIGN LANGUAGES

Life Hack

The top 10 language jobs you can get to help teachers encourage their pupils to think about the benefit from knowing a foreign language.

http://www.lifehack.org/380912/the-10-coolest-jobs-you-canget-learning-foreign-language

Routes into Languages

Resources designed to introduce pupils to a language and culture they have not studied before. These language tasters cover a variety of topics including a series of cultural quizzes.

https://www.routesintolanguages.ac.uk/resources

Sparkle Box

Free resource sharing website

http://www.sparklebox.co.uk/topic/languages/#.WNKWInIFC Um

Teachitlanguages

Specialising in French, Spanish and German for students aged 11-18, the libraries offer over 3000 pages of materials.

https://www.teachitlanguages.co.uk/

MUSIC

Careers in Music

Careers in Music offers extensive music career information and resources.

https://www.careersinmusic.com/music-career-resources/

Musical Futures

Primary and secondary learning systems, professional development, tools and support needed to embrace an ethos of innovative, inspirational and informal music learning in the classroom and in the community.

https://www.musicalfutures.org/

Music Teachers

Support for musicians in education and performance, includes free resources across each Key Stage.

https://www.musicteachers.co.uk/

The Rediscover Project

Two music lesson plans focussed on the digital world of music 'Stream This'.

https://therediscoverproject.co.uk/resources/

PSHE

AQA

Free teaching resources

https://citizenshipresources.aga.org.uk/3528

The Forgiveness Project

Education resources explore the following three topics:

- Forgiveness and Justice
- Why do people forgive?
- Forgiving the Unforgivable

http://theforgivenessproject.com/education-resources/

The Rediscover Project

Two consecutive cross-curricular lessons combining maths and citizenship pupils will learn about how money is earned and spent, and use their maths and tech skills to manage their budgets as they step out into the world of work, salaries, taxes and unexpected expenses.

https://therediscoverproject.co.uk/resources/

Young Citizens

Young Citizens wants young people to leave education with a grasp of the political, legal and economic functions of society, and with the social and moral awareness to thrive in it. Young Citizens provide high quality, specialised teaching and learning resources.

https://www.youngcitizens.org/Pages/Category/freeteaching

PΕ

Careers in Sport

Careers in sport website includes the latest news, job vacancies and careers advice within the sports industry. They offer a bespoke costed service to schools and colleges to deliver presentations and workshops. The website does include free downloadable posters that schools can use.

https://careers-in-sport.co.uk/school-college-presentations/

PE Resource Bank

PE Resources for all Key Stages

http://www.peresourcesbank.co.uk/

Premier League Primary Stars

Resources using the inspiration and fun of sport to connect pupils' learning to the world around them. Find easy-to-use resources for your pupils.

https://plprimarystars.com/resources?filter%5Bsubject%5D%5B %5D=PE

Teach PE

Free resources for Sports Coaching and PE including coaching tips, video drills, training advice, lesson notes, online quizzes, downloadable worksheets and more.

http://www.teachpe.com/resources/

RE AQA

Free curriculum resources for all subjects that AQA cover.

http://www.aqa.org.uk/subjects/religious-studies/gcse/religious-studies-a-8062/teaching-resources

National Association of Teachers of Religious Education (NATRE)

Free and costed resources available

http://www.natre.org.uk/resources/

SCIENCE

A Future in Chemistry

Chemistry resources and career guidance on Chemistry careers

http://www.rsc.org/careers/future/

Big Bang Fair Educational Resources

Careers resources from exhibitors at the The Big Bang UK Young Scientists & Engineers Fair

https://www.thebigbangfair.co.uk/careers-at-the-fair/

Biochemical Society

The Biochemical Society promotes the future of molecular biosciences; facilitating the sharing of expertise, supporting the advancement of biochemistry and molecular biology, and raising awareness of their importance in addressing societal grand challenges.

https://biochemistry.org/education/schools-and-fe-colleges/

BLOODHOUND Project

The BLOODHOUND Engineering Education Programme is available to all levels. Using a 1000mph world land speed record attempt to inspire the next generation to enjoy, explore and get involved in STEM

http://www.bloodhoundssc.com/education

British Science Week

British Science Week takes place in March every year. The British Science week website includes a secondary activity pack and also downloadable activities which pupils can do at home. These resources can be used all year round. The resources are available for early years, primary and secondary.

https://www.britishscienceweek.org/plan-your-activities/activity-packs/

Cisco

Technology experts Cisco have developed a Pathways programme, including a bank of downloadable workshop resources for Year 7, 8 and 9 teachers across STEM subjects. These ready-to-use classroom resources span Design & Technology, Science, Maths and Computing.

https://ciscopathways.co.uk/schools/resources/

Finding Ada

Ada Lovelace Day is an international celebration of the achievements of women in STEM, aiming to increase women's profile and create new role models.

www.findingada.com

Inspired by Space

Resources to encourage primary girls (and boys) into STEM. It provides easy-to-implement ideas using five strategies to help girls and boys succeed in STEM learning, including harnessing skills like communication, collaboration and creativity.

There are some great ideas inside for bringing STEAM and STEM together to make activities relevant for both girls and boys at primary level.

https://principiaspacediary.org/inspired-by-space-engaging-girls-in-stem/

Institute of Physics

Resources for the classroom available to physics teachers.

http://www.iop.org/education/teacher/resources/

Microbiology Society

The Microbiology Society offers insight into the various career paths in microbiology, how to pursue these careers, the qualifications needed and where this will likely place you. The website has a focus around key decision areas such as school leavers and college leavers with specific aid on subject/course choice. The website also has a live careers section with further information on careers events and information for postgraduates.

http://www.microbiologysociety.org/careers/index.cfm

People like me

WISE inspires girls and women to study and build careers using science, technology, engineering and maths (STEM).

https://www.wisecampaign.org.uk/resources/tag/resources-for-schools

Physics

Resources on careers, physics news, helpful advice & info about studying physics and try fun experiments and games.

http://www.physics.org/careers.asp?contentid=381

Practical Action

STEM resources page, including a range of different challenges that can be both incorporated into lessons or used for transition, curriculum enrichment day, parental engagement or a STEM club.

https://practicalaction.org/stem

Rail Week

A dedicated week of activity aims to address the skills shortage in rail-related roles and inspire a generation of young people through a series of events, visits and talks Activity packs available

http://www.railweek.com/activity-packs/

RHS Campaign for School Gardening

Resources available to bring horticulture into the classroom.

https://schoolgardening.rhs.org.uk/Resources

RS - Imagine-X

RS has developed Imagine-X. It links dynamic, exciting STEM subjects to real people who have used the same skills to make the world a better place. It gives teachers free curriculum-aligned resources for pupils aged 7 – 14, with one aim: helping pupils realise the far-reaching potential of STEM and their imaginations.

https://uk.rsonline.com/web/generalDisplay.html?id=stem/imagine-x

School Science

Free online science resources for teachers and students.

http://www.schoolscience.co.uk/teacherzone/resources/free-resources

STEM Resources for Teachers

Jump! Parents and Jump! Kids provide free resources aimed at supporting the learning of young people...

http://jumpparents.co.uk/stem-resources/

STEM Learning

Resources alongside materials produced by the STEM teaching community themselves. This link provides specific resources for Science and Engineering.

https://www.stem.org.uk/resources/search?f%5B0%5D=field_s ubject%3A67&f%5B1%5D=field_subject%3A26

STEM Learning have developed a poster to support students to understand employability skills and teachers to understand the Gatsby benchmarks and good career guidance in STEM.

https://www.stem.org.uk/career-benchmarks

Love Food Love Science

Resources for KS3/4 and mentoring support. Information on the range of careers available in food science and technology.

https://www.ifst.org/lovefoodlovescience

The Life Scientific - BBC Radio 4

Resources talking to leading scientists about their life and work, finding out what inspires and motivates them and asking what their discoveries might do for mankind.

http://www.bbc.co.uk/programmes/b015sqc7/episodes/guide

The Royal Society of Chemistry

Resources for the classroom

http://www.rsc.org/learnchemistry/resource/listing?searchtext=%22startersforten%22& eMediaType=MED00000009

Primary Resources:

http://www.rsc.org/learn-

<u>chemistry/resource/listing?searchtext=&filter=all&fLevel=LEV0</u> 0000001&eMediaType=MED00000009&reference=primaryres ource

The Royal Academy of Engineering

The Royal Academy of Engineering have developed a website to demonstrate the diversity of the profession.

https://www.thisisengineering.org.uk/

University of Birmingham: Biology, Chemistry and Physics A Level resources

A Level Science experiments to help students understand why practical skills are important.

http://www.birmingham.ac.uk/undergraduate/preparingfor-university/stem/STEM-resources.aspx

Year of Engineering

Primary and Secondary resources which can be searched by curriculum area, age range and resource type. Resources include lesson plans, competitions, PowerPoint presentations and videos.

https://www.yearofengineering.gov.uk/school

Year of Engineering have developed some new assembly packs (May 2019) for both Primary and Secondary which tackle misconceptions about the sector, giving students a better understanding of what a career in engineering can offer and the different routes in through inspirational case study films.

https://www.yearofengineering.gov.uk/feature/921

Women's Engineering Society

The Women's Engineering Society website includes a list of available STEM resources and links to relevant published reports.

https://www.wes.org.uk/