

Healthcare and Health Science

Student Worksheets



Name:.....

Form:.....

Contents

Lesson 1

Health Care and Health Science - What is it?

This session explores what healthcare and health science is, how it relates to manufacturing and what does the local labour market picture looks

Lesson 2

What are the different technical and Scientific roles?

This session explores the different technical and scientific roles that exist within healthcare and health science.

Lesson 3

Who employs Healthcare Professionals?

This session helps students to explore who employs healthcare professionals including which areas exist within public and private organisations so students can identify where the different technical and scientific based roles can be found.

Lesson 4

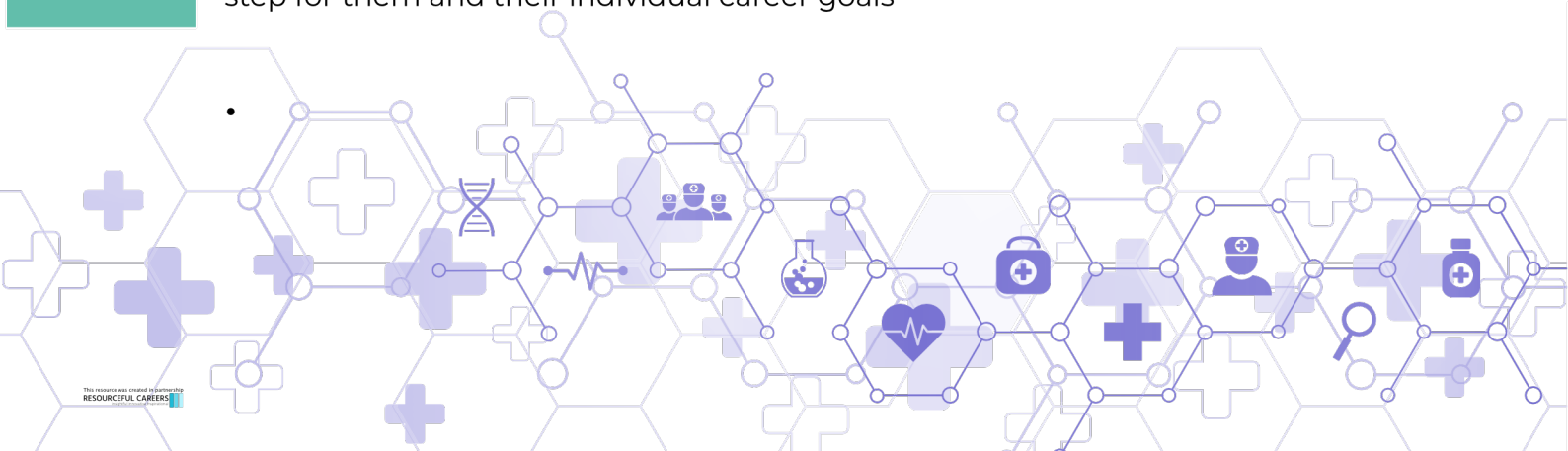
What's in it for me?

This session helps students to explore examples of staff working in healthcare and health science roles. Student will watch different case studies and spend time researching some of the skills and qualifications needed.

Lesson 5

What does your career plan look like?

This session will help students to reflect and review their favourite technical and scientific healthcare roles which will help them to identify the best next step for them and their individual career goals



Introduction

Did you know...

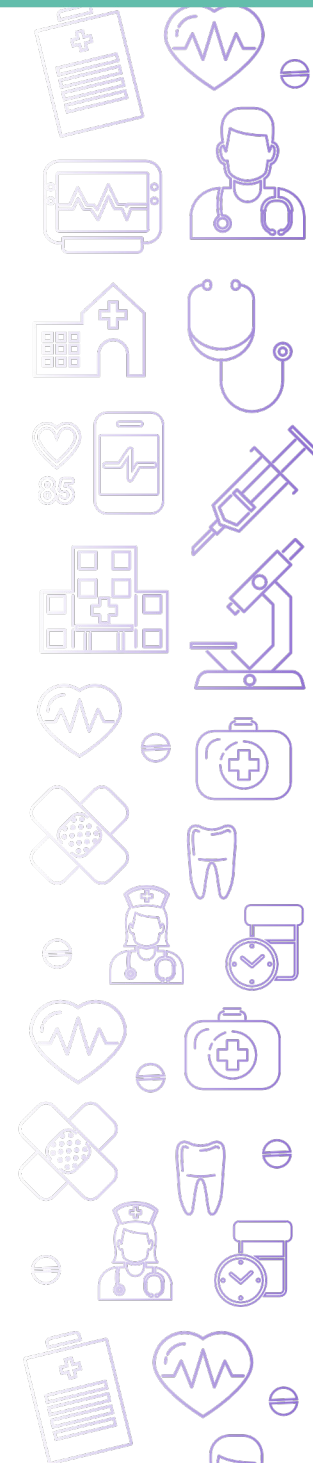
The largest employer in the UK healthcare sector is the NHS, which employs more than 1.5 million people - placing it in the top five largest workforces in the world. There are more than 350 different roles available within the NHS.

Healthcare science is one of the fastest-moving areas of the NHS and its importance will continue to grow.

On a day-to-day basis, the NHS relies on the healthcare science workforce to gather information about patients, recommend the best treatment and, in many cases, administer it themselves. They contribute to 80 per cent of decisions about patient treatment.

At the same time, they are continually developing and testing more sophisticated technology and techniques. Today's advances will form the basis of tomorrow's treatments, providing safer and more effective ways to diagnose and manage medical conditions.

Use this logbook to capture your responses during the lesson you complete. You'll be able to refer back to your answers in the future and use these when discussing your plans with your parents, teachers and careers advisers.



What is Healthcare and Health Science?

Lesson 1

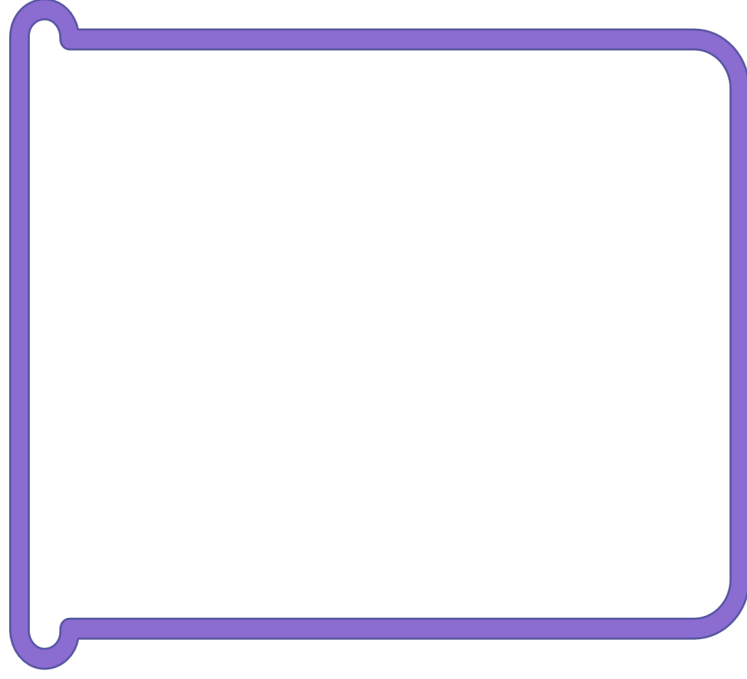
Lesson 1 Activity 1

What do you know?

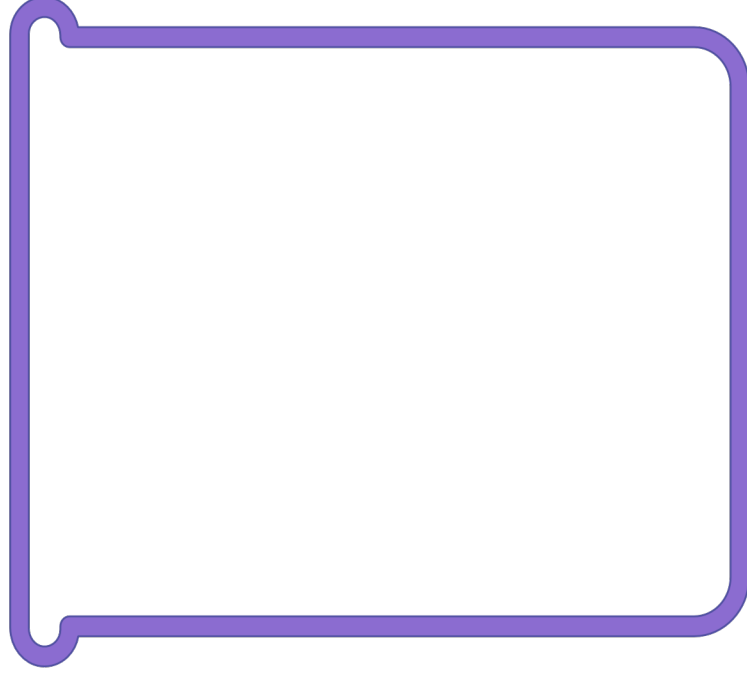
Think about the different jobs and careers that might be involved in Healthcare and Health Science.

Write down your thoughts in the different jars below:

Healthcare



Health Science



Lesson 1

Activity 3

What's happening near you?

Watch the video and using the boxes below write down

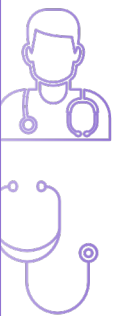
- **Five** employer / companies you see
- **Five** Healthcare and Health Science jobs you can identify in the video



Employers and Jobs	
<i>Accord</i>	<i>Biomedical Engineer</i>



Use the space below to capture anymore you employers and job roles



Lesson 1

Activity 3

Skills in Healthcare & Health Science

Review the below employability skills that are in required for jobs and careers in Healthcare and Health Science.

Rate your own skills and write what you think you can do to develop these skills further.



Rate your employability skills		
Skills	Rate Your Skills	How can you develop this skill further?
Team work	☆ ☆ ☆ ☆ ☆	<i>I work well in small teams but need to get more experience working with larger teams</i>
An enquiring mind	☆ ☆ ☆ ☆ ☆	
IT skills	☆ ☆ ☆ ☆ ☆	
Numeracy Skills	☆ ☆ ☆ ☆ ☆	
Presentation Skills	☆ ☆ ☆ ☆ ☆	
Analytical Thinking	☆ ☆ ☆ ☆ ☆	
Problem Solving	☆ ☆ ☆ ☆ ☆	
Logical Thinking	☆ ☆ ☆ ☆ ☆	
Objective thinking	☆ ☆ ☆ ☆ ☆	



What are the different technical and scientific roles?

Lesson 2

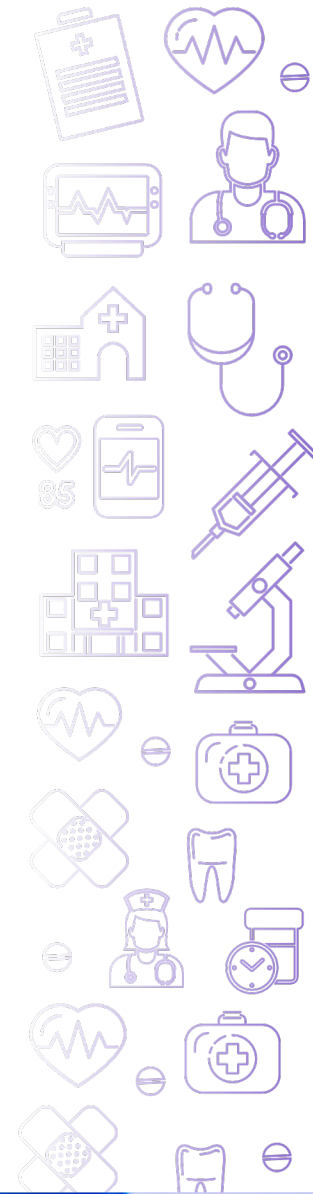
Lesson 2

Technical Roles and Scientific Roles

A significant proportion of the Healthcare and Healthcare science sector's workforce is in independent healthcare. In addition to their private sector functions, these providers are increasingly contracted to provide services on behalf of the NHS.

Alongside those who work in healthcare there are over 50,000 healthcare scientists working in the NHS and public health services.

Together they provide the scientific backbone of the NHS and their work underpins 80% of all diagnoses. Their role stretches across the whole innovation pathway from academic and translational research, to patient-centred service



Lesson 2

Activity 1

Technical Roles

Explore the technical roles in Health care and Health Science by clicking on the images below.

Using your the table below, write down **2 x Technical Jobs in Healthcare** and **2 x Technical jobs in Health Science**.

Health Care



<https://www.prospects.ac.uk/jobs-and-work-experience/job-sectors/healthcare>

Health Science



<https://www.prospects.ac.uk/jobs-and-work-experience/job-sectors/science-and-pharmaceuticals>

	Jobs Titles	Responsibilities
Healthcare		
Healthcare		
Health Science		
Health Science		



Lesson 2

Activity 1

Technical Roles

Pick two roles in your small group and look at how you can become each of the roles you have chosen.

Using the table below capture what skills, qualities and qualifications you would need for the role.



Research the Technical Roles			
Job Title	Skill Required	Qualities needed	Qualifications
Pharmacy Technician			
Lab Technician			
Decontamination Technician			
Prosthetic Technician			
Orthotic Technician			
Emergency Medical Technician			
IT Technician			



LESSON 2 - ACTIVITY 1

PETRI DISH SKILL & QUALS SORT

SKILLS AND QUALITIES

Communication

People Skills

Methodical

Creative

Practical

Computer / IT

Design

Problem Solving

Dedicated

Flexibility

Team work

Motivated

QUALIFICATIONS

ICT

English

Maths

Apprenticeship

Science

Engineering

Healthcare

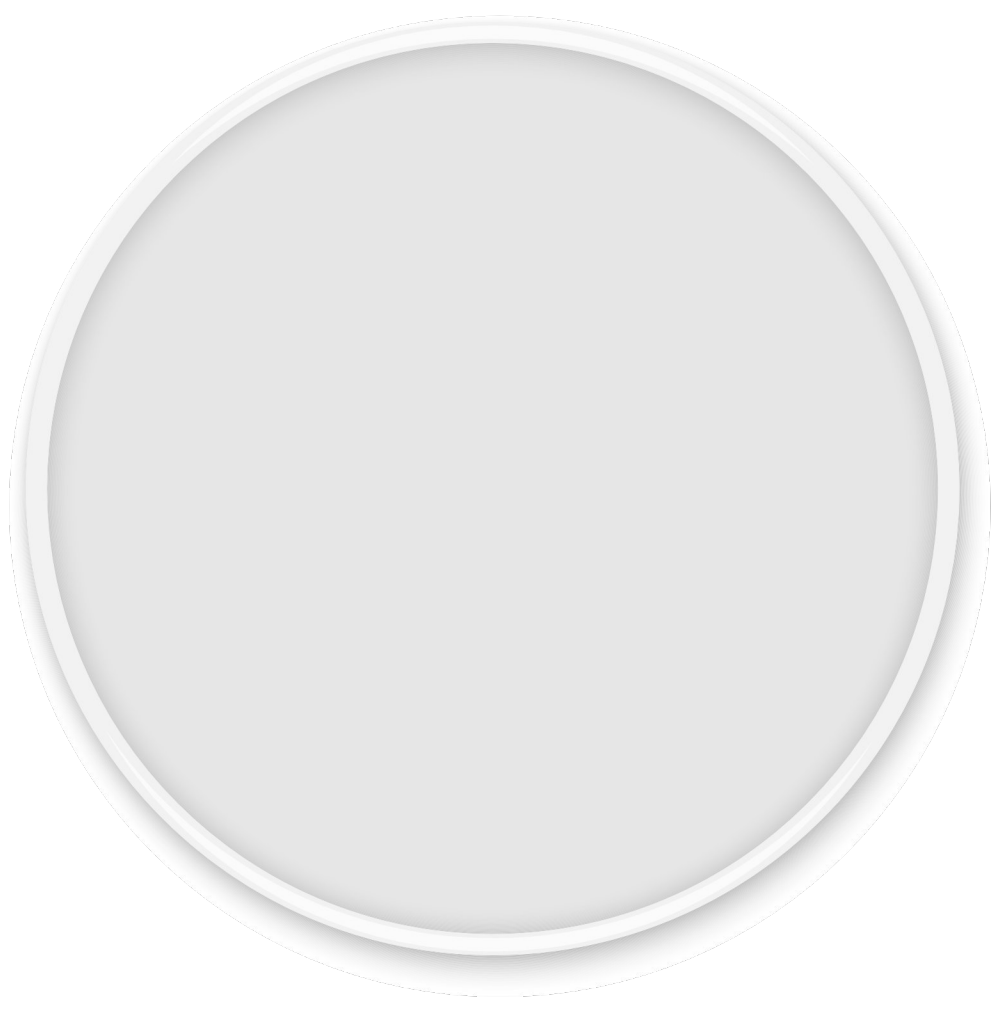
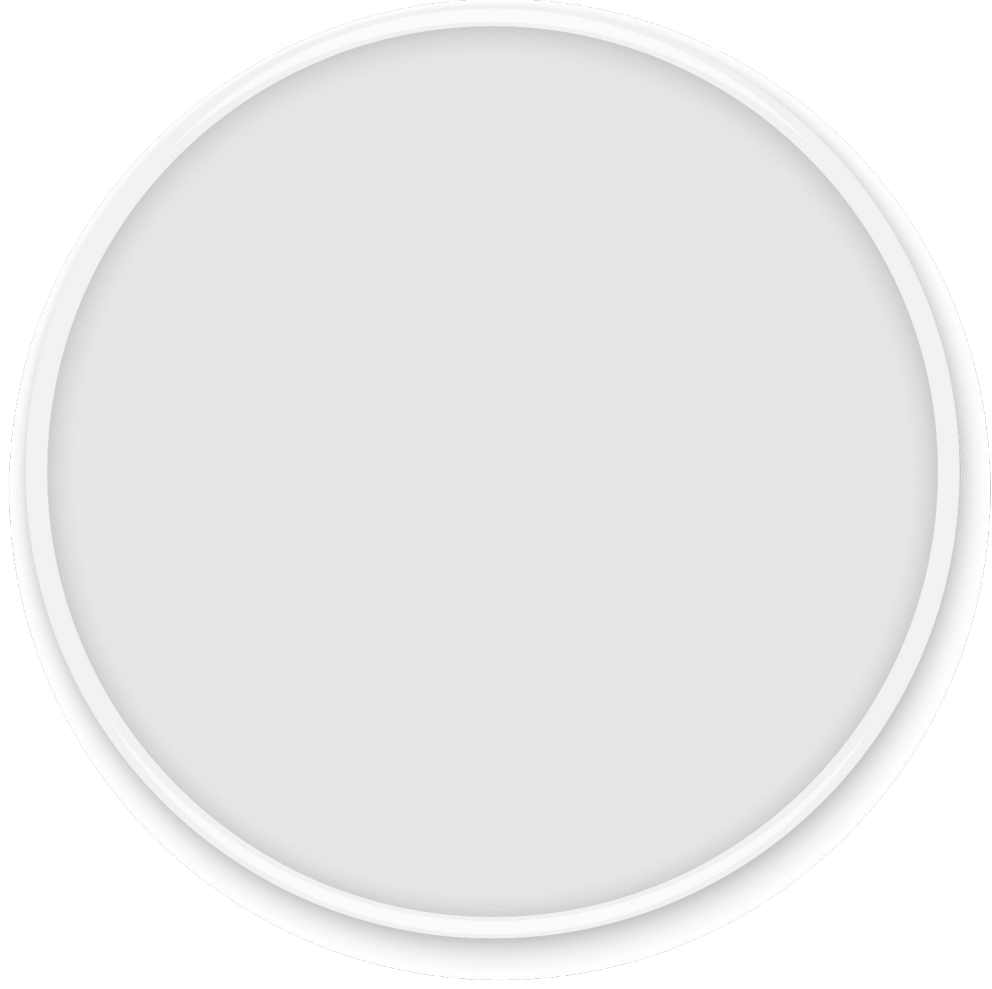
Driving Licence

Degree

Lesson 2

Activity 1

Are there similar qualities, skills and qualifications you would need?
Anything specific to the role
Any skills, qualities and qualifications that surprise you?



Lesson 2

Activity 2

Scientific Roles

Explore the Scientific roles in Health care and Health Science by clicking on the images below.

Using your the table below, write down **2 x Scientific Jobs in Healthcare** and **2 x Scientific jobs in Health Science**.

Health Care



<https://www.prospects.ac.uk/jobs-and-work-experience/job-sectors/healthcare>

Health Science



<https://www.prospects.ac.uk/jobs-and-work-experience/job-sectors/science-and-pharmaceuticals>



	Jobs Titles	Responsibilities
Healthcare		
Healthcare		
Health Science		
Health Science		

Lesson 2

Activity 2

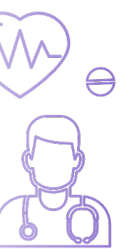
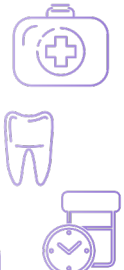
Scientific Roles

Pick two roles in your small group and look at how you can become each of the roles you have chosen.

Using the table below capture what skills, qualities and qualifications you would need for the role.



Research the Scientific Roles			
Job Title	Skill Required	Qualities needed	Qualifications
Pharmacy Technician			
Lab Technician			
Decontamination Technician			
Prosthetic Technician			
Orthotic Technician			
Emergency Medical Technician			
IT Technician			



LESSON 2 - ACTIVITY 1

PETRI DISH SKILL & QUALS SORT

SKILLS AND QUALITIES

Communication

People Skills

Methodical

Creative

Practical

Computer / IT

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QUALIFICATIONS

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Science

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Healthcare

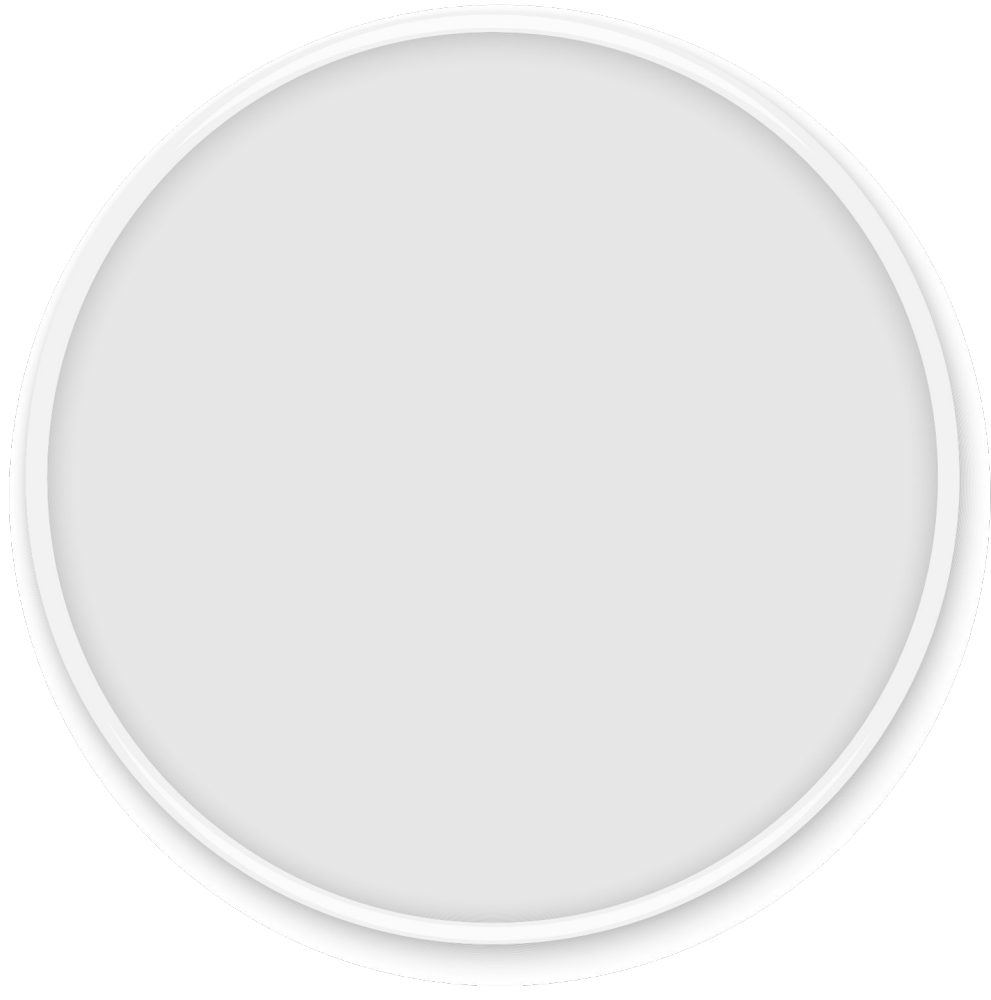
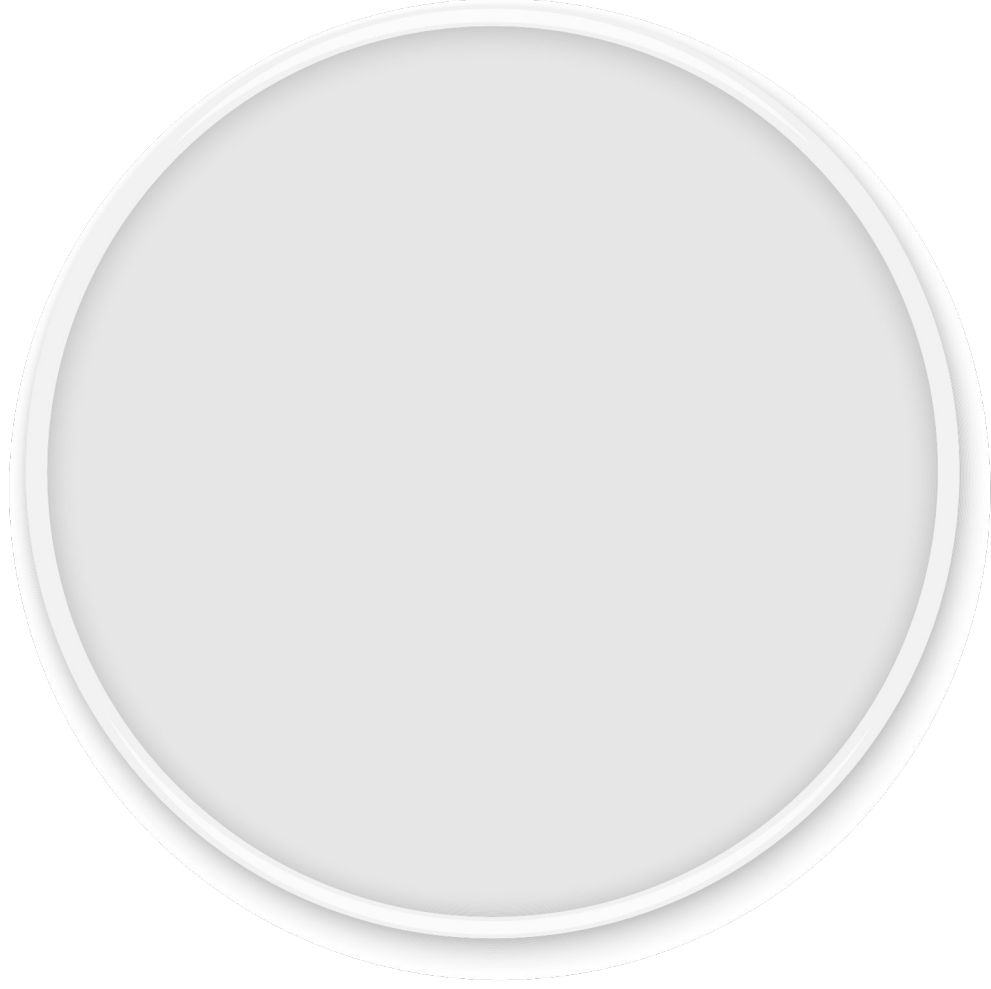
Driving Licence

Degree

Lesson 2

Activity 2

Are there similar qualities, skills and qualifications you would need?
Anything specific to the role
Any skills, qualities and qualifications that surprise you?

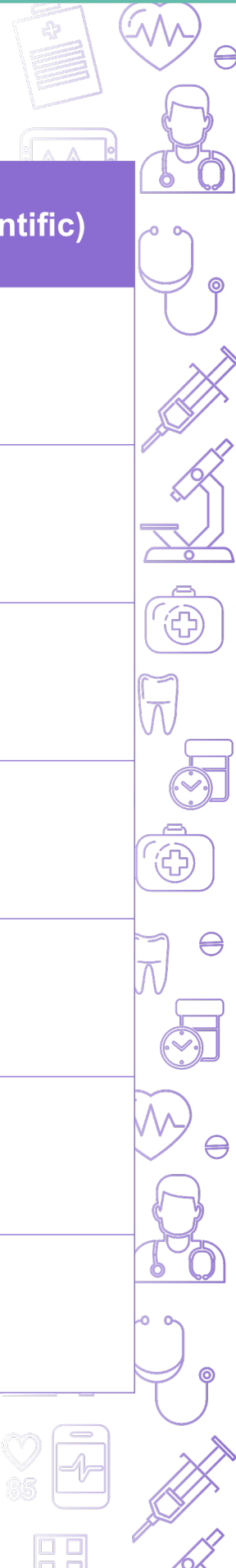


Lesson 2

Activity 2

What Skills do the Technical & Scientific Roles have in common?

Job Title	Skills (Technical)	Skills (Scientific)
Pharmacy Technician		
Lab Technician		
Decontamination Technician		
Prosthetic Technician		
Orthotic Technician		
Emergency Medical Technician		
IT Technician		



Who employs Healthcare Professionals?

Lesson 3

Lesson 3

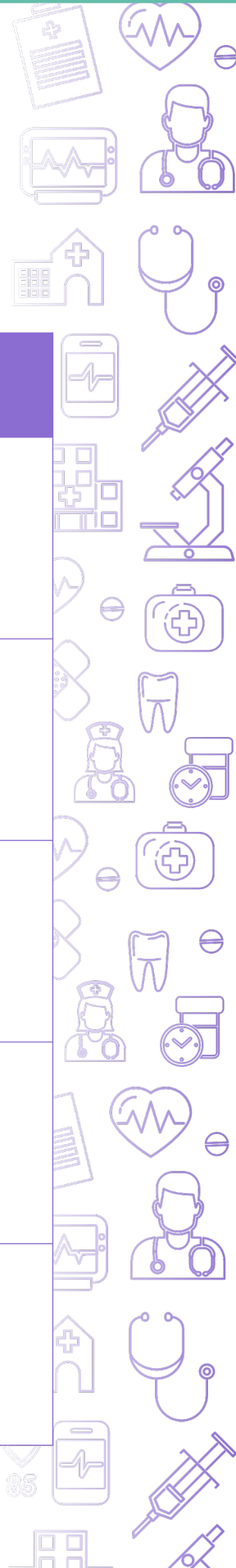
Activity 1

Who employs Healthcare professionals?

Think about all the different places and different environments you might find a healthcare and health science professional.. i.e. GP Surgery, hospital etc

Using the table below, write down five place / environments you might find healthcare and health science professional in.

	Healthcare	Health Science
Place of work		
Place of work		
Place of work		
Place of work		
Place of work		



Lesson 3

Activity 2

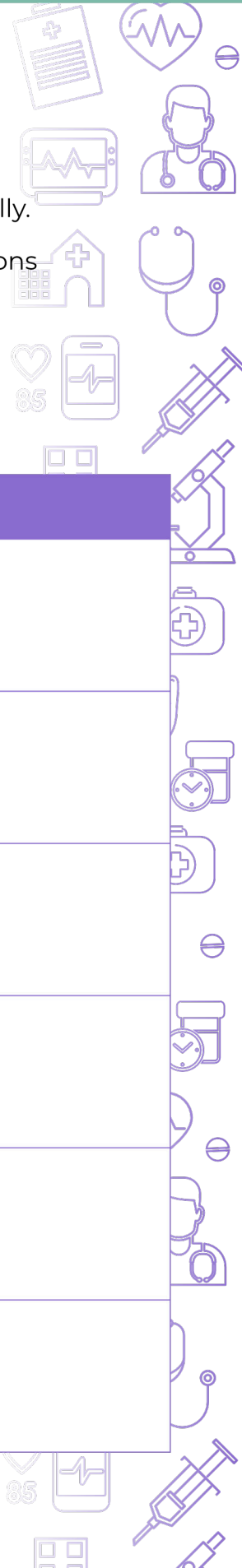
Who employs Healthcare professionals?



Ellie's story...

Watch the Career Insight video from Molly.

Listen carefully and answer the questions below.



Ellie	Answers
What is Ellie's Job?	
What job did Ellie say she always wanted to do?	
How did Ellie qualify in her role?	
What challenges does Ellie face in her role?	
What does Ellie like about her role?	
What does Ellie want to progress into?	

Lesson 3 Activity 4

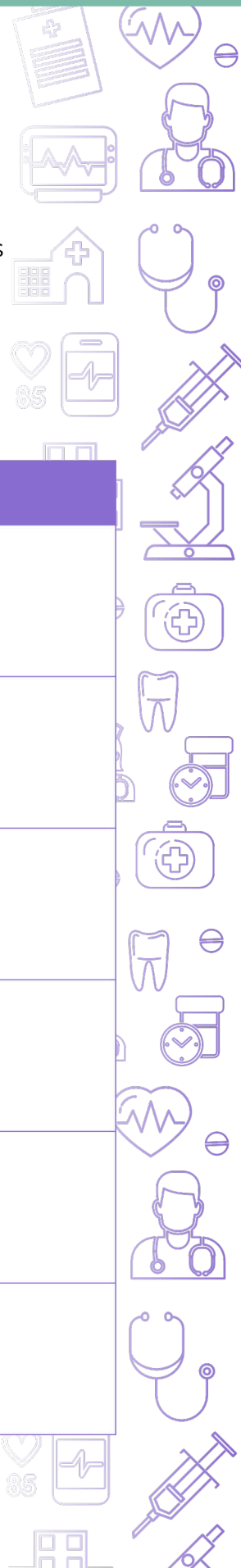
Who employs Scientific professionals?



Molly's story...

Watch the Career Insight video from Molly.

Listen carefully and answer the questions below.



Ellie	Answers
What is Molly's Job Title?	
Describe what Molly's job does?	
How did Molly qualify?	
What challenges does Molly face in her role?	
What does Molly like about her role?	
What does Molly want to progress into?	

What's in it for me?

Lesson 4

Lesson 4

Case Study 1

What's in it for me?

Using the following link <https://careerpilot.org.uk/job-sectors/medical/job-profiles>.

Explore the five medical roles and find out the following:

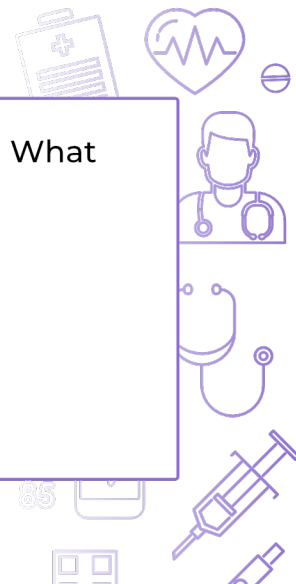


Research the Scientific Roles			
Job Title	Annual Salary	Working Hours	Future Employment Fact



Questions

How varied are the roles across the NHS? Are they all Science based? What about some of the traditional roles?



Lesson 4

Case Study 1

What's in it for me?



What is Ben's role?

Questions	Answers
What skills does Ben need to do his job?	
Why is his role important in the wider world of healthcare?	
Why is his role so important?	
Where would Ben work?	
Are there opportunities to progress/develop/train further? What were they?	

Lesson 4

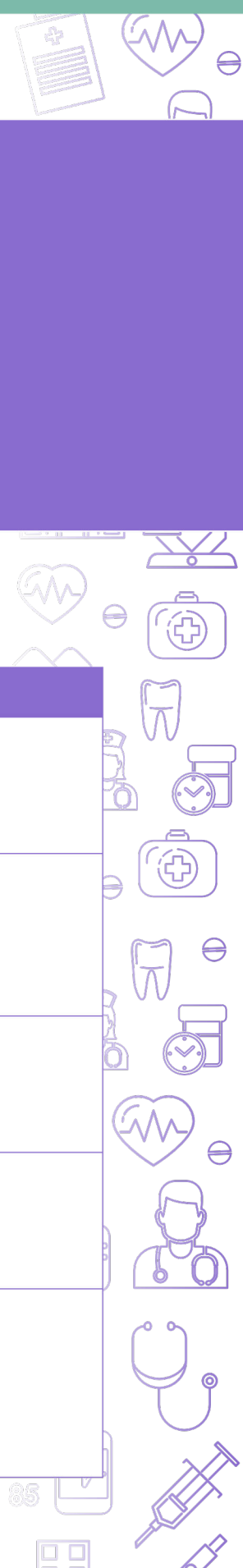
Case Study 2

What's in it for me?



What is Teresa's role?

Questions	Answers
What skills does Teresa need to do his job?	
Why is his role important in the wider world of healthcare?	
Why is her role so important?	
Where might Teresa work?	
Are there opportunities to progress/develop/train further? What were they?	



Lesson 4

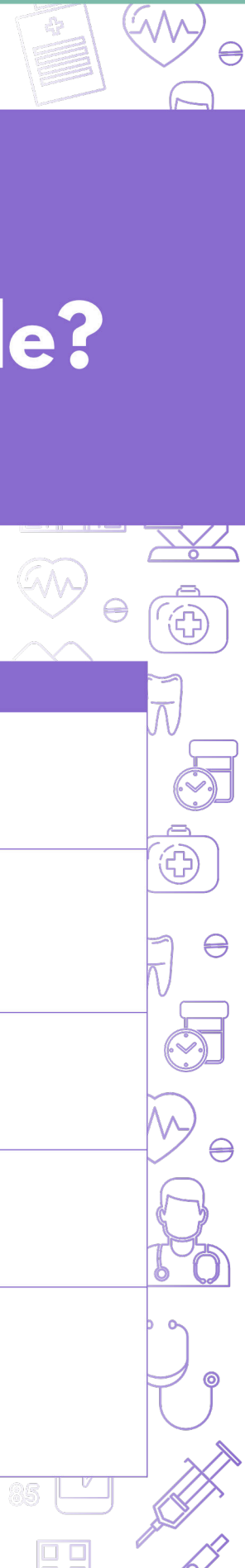
Case Study 3

What's in it for me?



What is Ryan's role?

Questions	Answers
What skills does Ryan need to do his job?	
Why is his role important in the wider world of healthcare?	
Why is his role so important?	
Where would Ryan work?	
Are there opportunities to progress/develop/train further? What were they?	



Lesson 4

Case Study Review

What's in it for me?

Reflect on the three case studies you have watched and answer the questions below



Questions	Answers
<p>Are there any common skills that need in the 3 job roles (Ben, Teresa and Ryan)? -</p> <p>What are these skills?</p>	
<p>Are there any skills that are different?</p> <p>What are these skills?</p>	
<p>What other areas of Healthcare and Health Science would make use of the skills?</p>	



Lesson 4

Research Activity

What's in it for me?

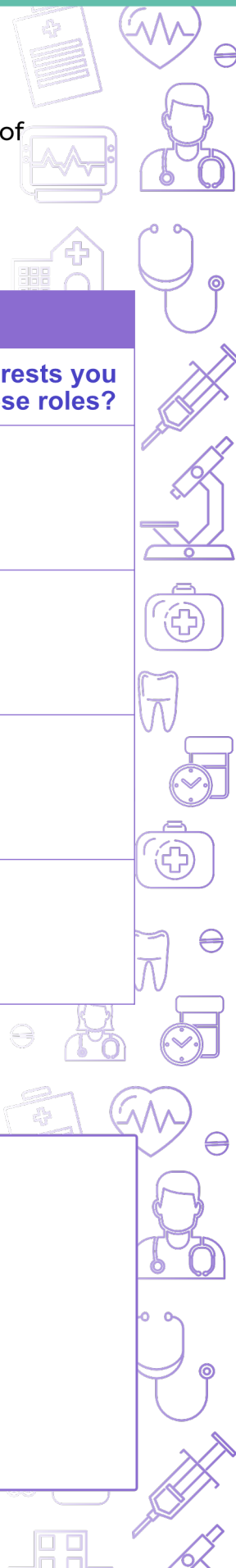
Using the places of work below to help you, write down as many places of work that would employ the below job roles.

Write down what you think each of the roles below involves.

Research the Scientific Roles			
NHS Roles	Skills & Qualifications	Salary	What interests you about these roles?
Physical Sciences and Biomedical Engineering			
Clinical Bioinformatics			
Life Sciences			
Physiological Sciences			

Your development

What opportunities will help you to develop?



What does your career plan look like?

Lesson 5

Lesson 5

Activity 1

What does your Career plan look like?

Use the box below to capture your career ideas. Think about where you want to be and what you can do to get there?

Think about your favourite Healthcare and Health Science roles and capture your thoughts in the boxes below.

Questions	Answers
What are your favourite roles in healthcare and Health science and why?	
What do you know about these roles?	
What do you need to find out?	
Who can help you?	
Where can you get information	

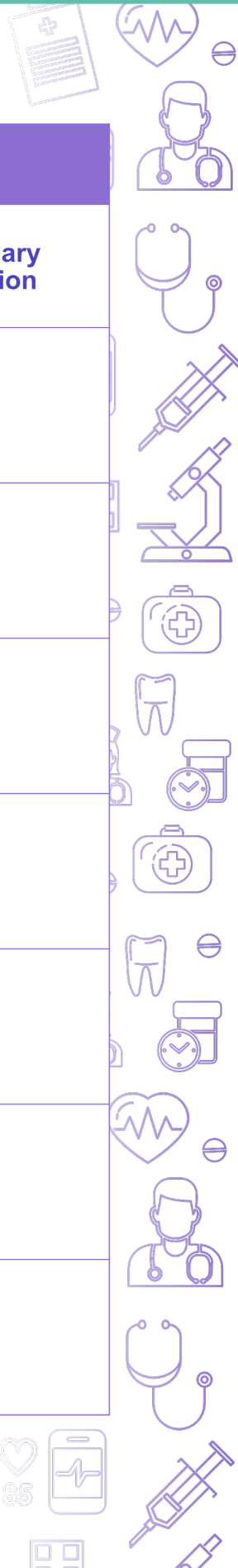


Lesson 5

Activity 2

What does your Career plan look like?

Research the Scientific Roles			
Job Title	Higher Education	Further Education	Secondary Education
Pharmacy Technician			
Lab Technician			
Decontamination Technician			
Prosthetic Technician			
Orthotic Technician			
Emergency Medical Technician			
IT Technician			



Lesson 5

Activity 3

What does your Career plan look like?

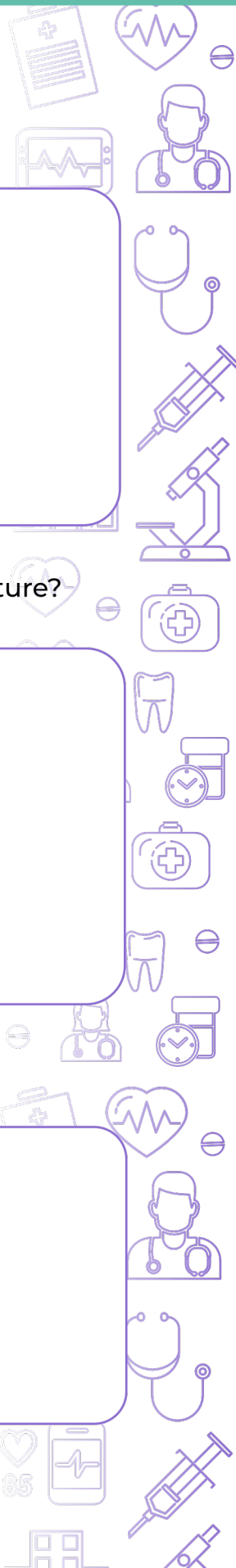
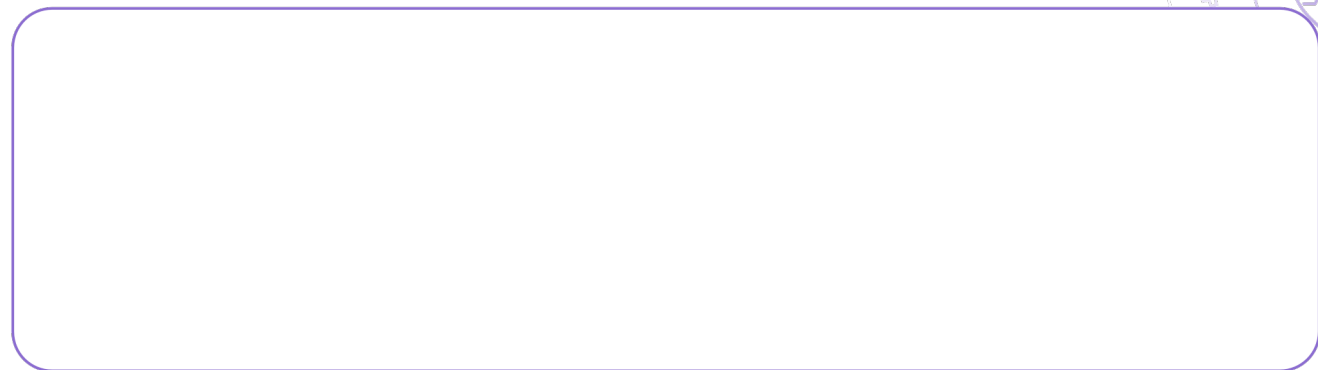
To help you identify your skills and goals write where you are now?



Write down a long term goal below. Where do you want to be in the future?

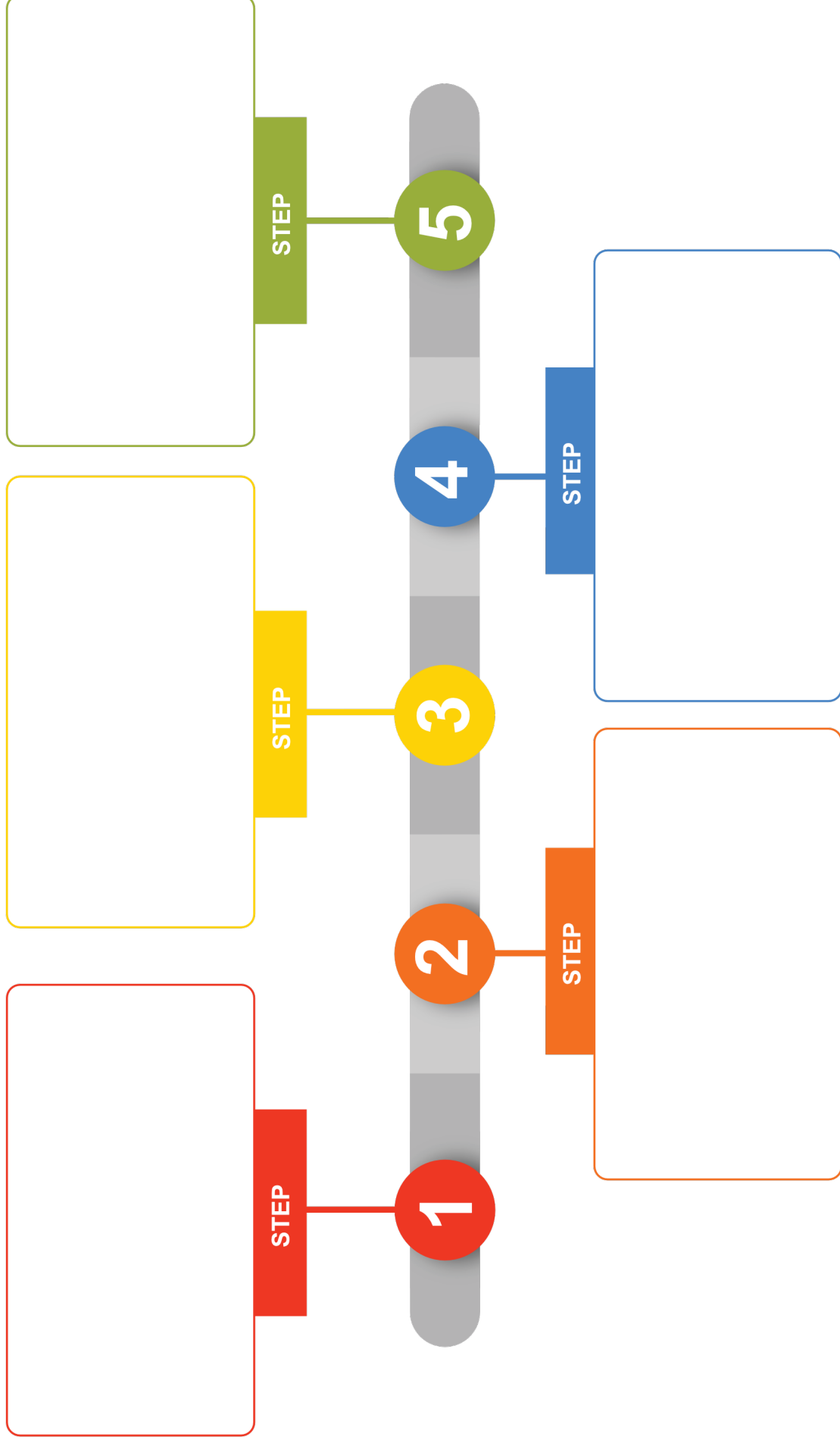


Write down a short term goal below. Where do you want get started?
Will it help you achieve your long term goal?



Lesson 5
Activity 4

CareerMap



Lesson 5 Activity 4

Reflective Diary

Date	What have I learn?	How do I learn it?	Why did it learn it?	How does this learning help em to develop?	What does this experience mean to me?
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					