

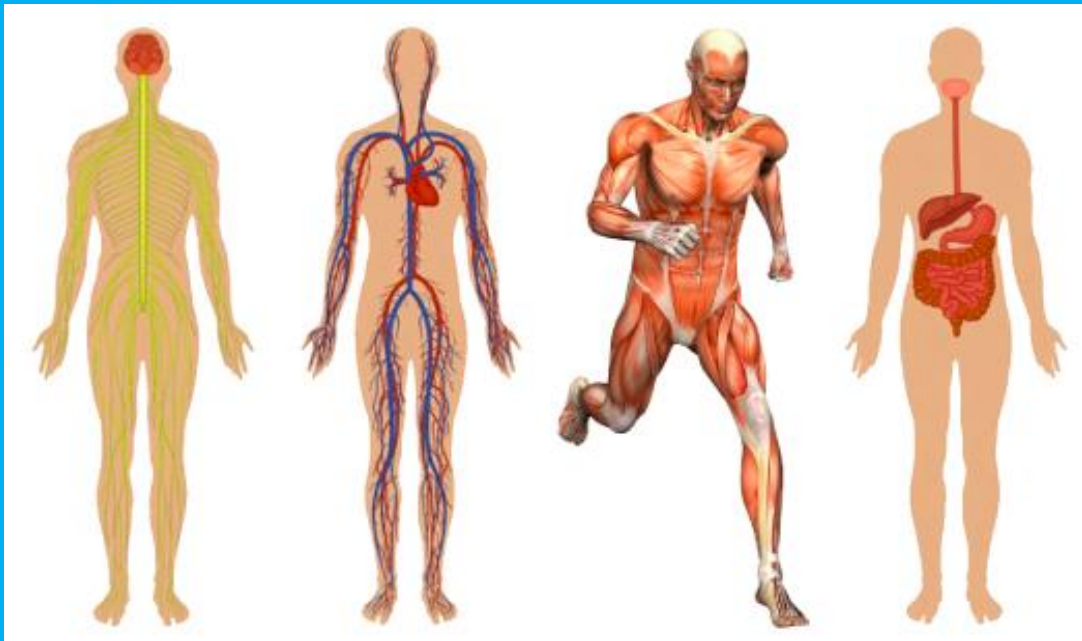
# New College Pontefract

## Summer Learning Tasks

### BTEC Triple Sport (Y11 into Y12)

Complete all tasks in this booklet to fully prepare yourself for your new course in September.

This will be handed in during your first lesson.

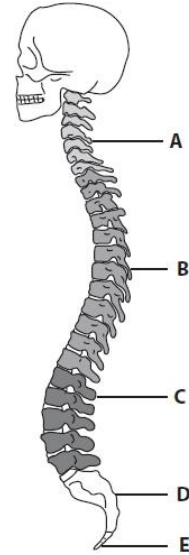


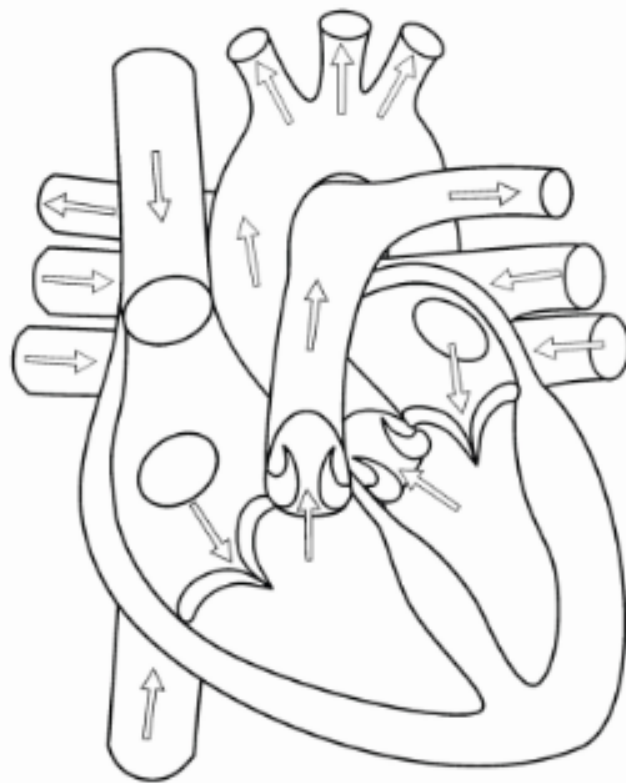
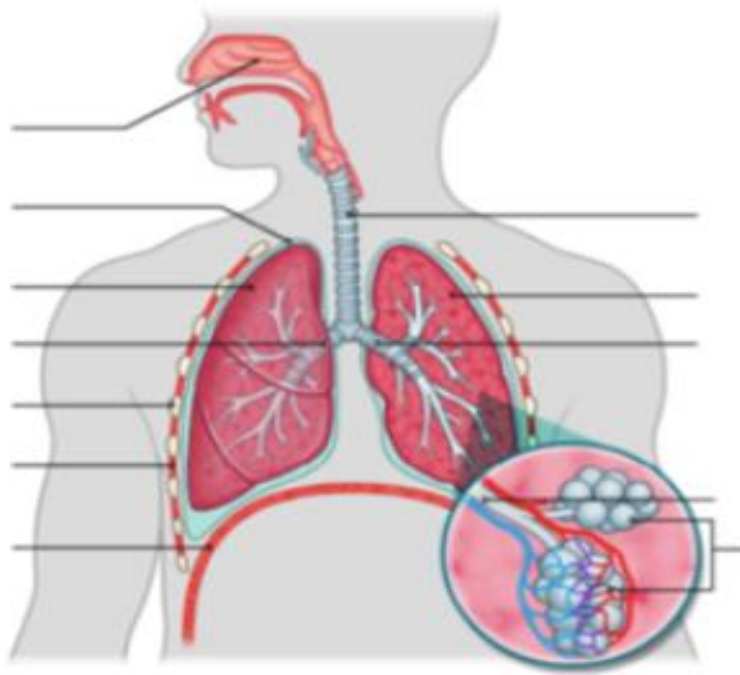
Name: \_\_\_\_\_

**Task 1:** Research the answers to label the components for the 4 body systems on the following diagrams.



Can you label the 5 regions of the spine...?





**Task 2:** Define the following terms below. Identify whether you knew this key term already or if you had to research it in the end column.

There will be 10 definitions for each body system...

- Muscular system
- Skeletal system
- Respiratory system
- Cardiovascular system

Key Term:	Definition:	Y = I knew this already. N = I had to research this.
Agonist		
Antagonist		
Isometric Contraction		
Isotonic Contraction		
Concentric Contraction		
Eccentric Contraction		
Skeletal Muscle		
Flexion		
Plantar-flexion		
Adduction		

<b>Sesamoid Bone</b>		
<b>Ball &amp; Socket Joint</b>		
<b>Hinge Joint</b>		
<b>Long Bone</b>		
<b>Patella</b>		
<b>Rib Cage</b>		
<b>Ossification</b>		
<b>Epiphyseal Plate</b>		
<b>Cartilage</b>		
<b>Synovial Fluid</b>		
<b>Tidal Volume</b>		
<b>Mechanics of Breathing</b>		
<b>Breathing Rate</b>		
<b>Residual Volume</b>		
<b>Gas Exchange</b>		
<b>Diffusion</b>		

<b>Partial Pressure</b>		
<b>Medulla</b>		
<b>Phrenic Nerve</b>		
<b>Diaphragm</b>		
<b>Heart Rate</b>		
<b>Stroke Volume</b>		
<b>Chemoreceptors</b>		
<b>Cardiac Control Centre</b>		
<b>Vascular Shunt</b>		
<b>Venous Return</b>		
<b>Systole</b>		
<b>Cardiac Cycle</b>		
<b>Sudden Arrhythmic Death Syndrome</b>		

**Task 3:** Research short- and long-term effects of exercise on the following 4 body systems;

- Muscular
- Skeletal
- Respiratory
- Cardiovascular

**Short Term Effects:** Means what happens to this system as soon as we start exercising.

**Long Term Effects:** Means what happens to this system after long term exercise.

Muscular		Skeletal	
Short Term Effects	Long Term Effects	Short Term Effects	Long Term Effects
<ul style="list-style-type: none"> <li>• E.g. Increased muscle pliability.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• E.g. Increased bone density.</li> </ul>
Respiratory		Cardiovascular	
Short Term Effects	Long Term Effects	Short Term Effects	Long Term Effects
<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• E.g. Increased lung volume.</li> </ul>	<ul style="list-style-type: none"> <li>• E.g. Increased stroke volume.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

**Task 4:** In a spider diagram format, explain the following conditions below. You will need to know all of these for your new course.

**Asthma**

**Arthritis**

**Diabetes**

**Hypo-  
thermia**

**Hyper-  
thermia**

**Altitude  
Sickness**

**Hypoxia**



## Task 5:

Select **one** of the documentaries below and write a report summarising the content. Include...

- What is it about?
- Does it tackle any key issues in sport?
- What did you learn from it?
- How might what you have learned help you in your college studies?

## OCR A LEVEL PHYSICAL EDUCATION DEVELOP YOUR KNOWLEDGE OF SPORTING CONTEXT IN PREPARATION FOR YOUR 2 YEAR COURSE



<i>The English Game</i> (Sport and Society)		<input type="checkbox"/>
<i>Unstoppable</i> (Sport Psychology)		<input type="checkbox"/>
<i>Icarus</i> (Drugs/Performance)		<input type="checkbox"/>
<i>Stop at Nothing</i> (Doping in Sport)		<input type="checkbox"/>
<i>Coach Carter</i> (Sport Psychology)		<input type="checkbox"/>
<i>The Game Changers</i> (Diet and Nutrition)		<input type="checkbox"/>
<i>Supersize Me</i> (Diet and Nutrition)		<input type="checkbox"/>
<i>Blindside</i> (American Football)		<input type="checkbox"/>
<i>Last Chance U</i> (American Football)		<input type="checkbox"/>
<i>The Last Dance</i> (Michael Jordan)		<input type="checkbox"/>
<i>Losers</i> (Adversity in Sport)		<input type="checkbox"/>
<i>Moneyball</i>		<input type="checkbox"/>
<i>Formula 1 Drive to Survive</i>		<input type="checkbox"/>

<i>All or Nothing Manchester City</i>		<input type="checkbox"/>
<i>All or Nothing New Zealand All Blacks</i>		<input type="checkbox"/>
<i>This is Football</i>		<input type="checkbox"/>
<i>4 Minute Mile</i>		<input type="checkbox"/>
<i>The Program</i> (Lance Armstrong)		<input type="checkbox"/>
<i>Andy Murray - Resurfacing</i> (Injury Rehabilitation)		<input type="checkbox"/>
<i>Dan Carter - Perfect</i>		<input type="checkbox"/>
<i>The Unknown Runner</i>		<input type="checkbox"/>
<i>The Race to Dope</i> (Doping System in Sport)		<input type="checkbox"/>
<i>Muscle and Medals</i>		<input type="checkbox"/>

<i>Subscribe to the Body Coach</i> (Joe Wicks) (Types of Training/Nutrition)		<input type="checkbox"/>
<i>Kobe Bryant Black Mamba Doc</i>		<input type="checkbox"/>
<i>Being Serena Series</i>		<input type="checkbox"/>
<i>"Is Professionalism Killing Sport"</i> BBC Documentary		<input type="checkbox"/>
<i>The Psychology of a Winner 2020</i> Documentary		<input type="checkbox"/>
<i>Trent Alexander Arnold</i> Living the Dream		<input type="checkbox"/>
<i>Tyson Fury Road to Redemption</i>		<input type="checkbox"/>
<i>Crossing The Line</i> Australian Cricket		<input type="checkbox"/>
<i>Jurgen Klopp Journey to Top</i>		<input type="checkbox"/>
<i>Strive for Greatness</i> Lebron James		<input type="checkbox"/>

### Books to Read

*Shoe Dog - Phil Knight*  
History/Story of Nike

*Bounce - Matthew Syed*  
Neuroscience/Psychology

*Black box thinking*  
Matthew Syed  
Psychology

*Unbeatable - Jessica Ennis*

*No Limits - Michael Phelps*

*My Time - Bradley Wiggins*

*Between the lines - Victoria Pendleton*

*Legacy - James Kerr*  
*All Blacks (New Zealand Rugby)*

*The Secret Race - Tyler Hamilton and Daniel Coyle*  
Drugs/Energy Systems/Deviance

Keep up to date with all the latest news in the world of sport, there is always something happening that links to the course.....

Choose 2 from the lists above and write a report (minimum 1 xA4 for each) which;  
(A01) Describes an overview of the Video/Book  
(A02) Explains the relationship between the video/book and your OCR A level PE Specification  
(A03) Analyses the video/book and discuss your opinion and conclusion  
Tick the boxes of the ones you are completing. Feel free to watch as many as you want if you have time

Feel free to use any sports documentary / book / article etc...



## **Task 6:**

**Produce an A4 poster either handwritten or on computer describing the following 6 lifestyle factors (6 posters in total):**

- Physical activity
- Sedentary lifestyle
- Stress
- Smoking
- Sleep
- Alcohol

### **\*Include:**

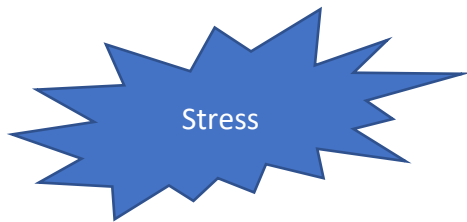
1. Recommended Government guidelines to any of the above factors that are relevant (e.g. what is the recommended limit on alcohol per week?).
2. Positive effects of any of the above (there aren't positives for all of them) (e.g. what are the positive effects of getting the right amount of sleep?).
3. Negative impacts of any of the above (there aren't negatives for all of them) (e.g. what are the negative effects of smoking?).
4. Make sure everything is explained in detail. Fill all the space across your 6 posters.
5. Use diagrams (e.g. to show the diseases caused by smoking and the harmful effects they can have).



Physical  
Activity



Sedentary  
Lifestyle











## **Task 7:**

**Design a blank PARQ (Physical Activity Readiness Questionnaire) / a Health Screening Questionnaire. Then get a parent to fill this in!!**

**\*Include a minimum of 5 questions on the following sections:**

- Personal Details (e.g name / age / height / weight / etc...)
- Physical Activity Levels (e.g. past / current / future?)
- Nutritional Status (5 a day / daily calorie intake / water intake etc...)
- Lifestyle Factors (smoking / drugs / alcohol / travel via car, bus, walk?)
- Sporting Goals (short, long and medium term goals for exercise & lifestyle)
- Consent Section (only need name, signature and date)

**\*Make sure you also...**

- Use full sentences.
- Use question marks where you are asking a question.
- Use a range of answer / response methods:
  - E.g. Written answers
  - E.g. Tick boxes
  - E.g. Rank on a 1-10 scale
  - Etc...
- Spell check and re-read to make sure it is understandable.
- Make it look professional.

### **Task 8:**

**Produce a PPT presentation outlining how to perform the following 5 health screening tests:**

- Resting Blood Pressure
- Resting Heart Rate
- BMI
- Waist to Hip Ratio
- Lung Function (Peak Flow)

**\*Include:**

- Diagram of each test
- Description of how to administer each test and list of equipment
- Normative data table for expected results of males and females for each test

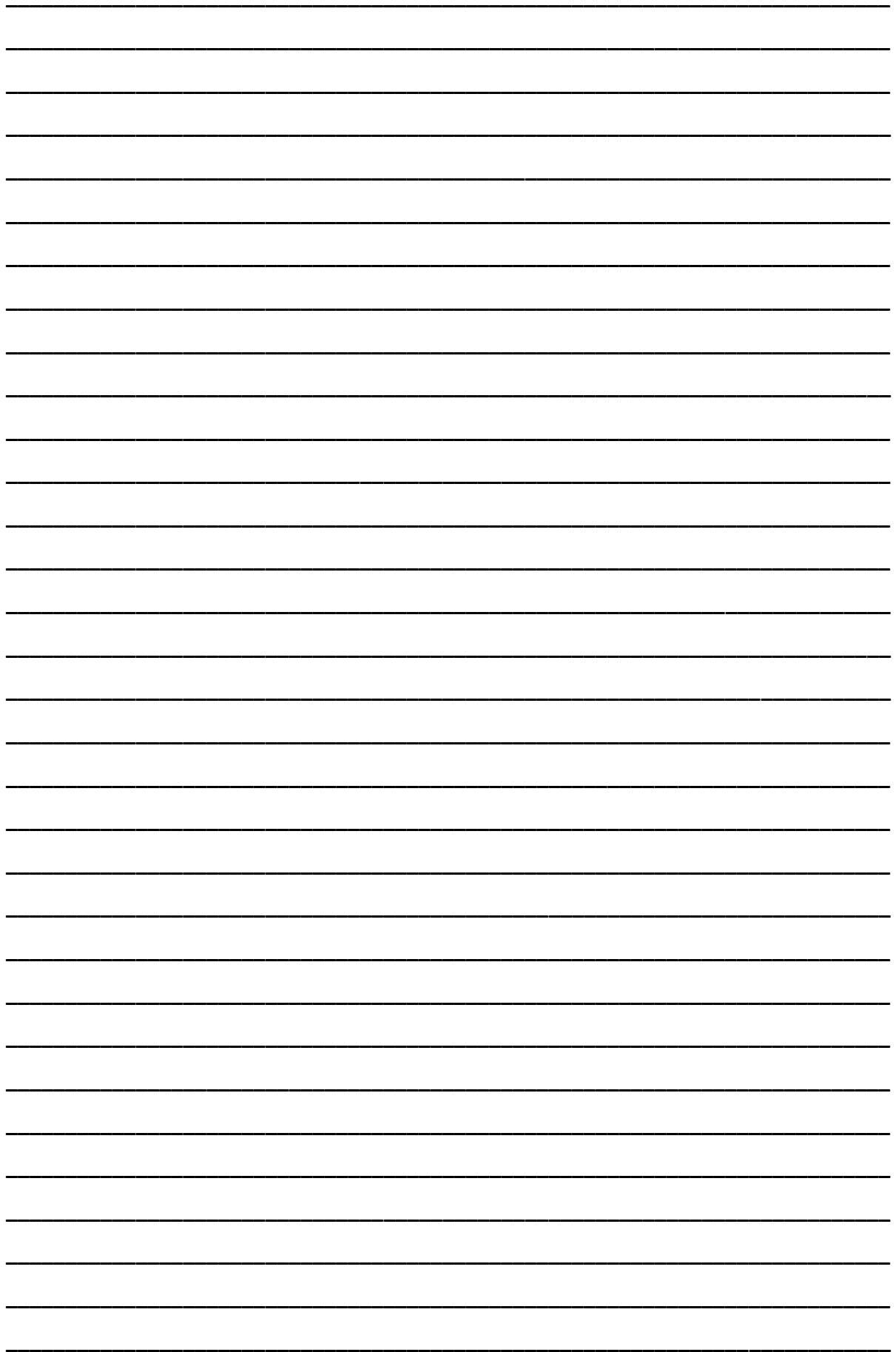
**If you are struggling for ideas then use: [www.brianmac.co.uk](http://www.brianmac.co.uk) to help you**

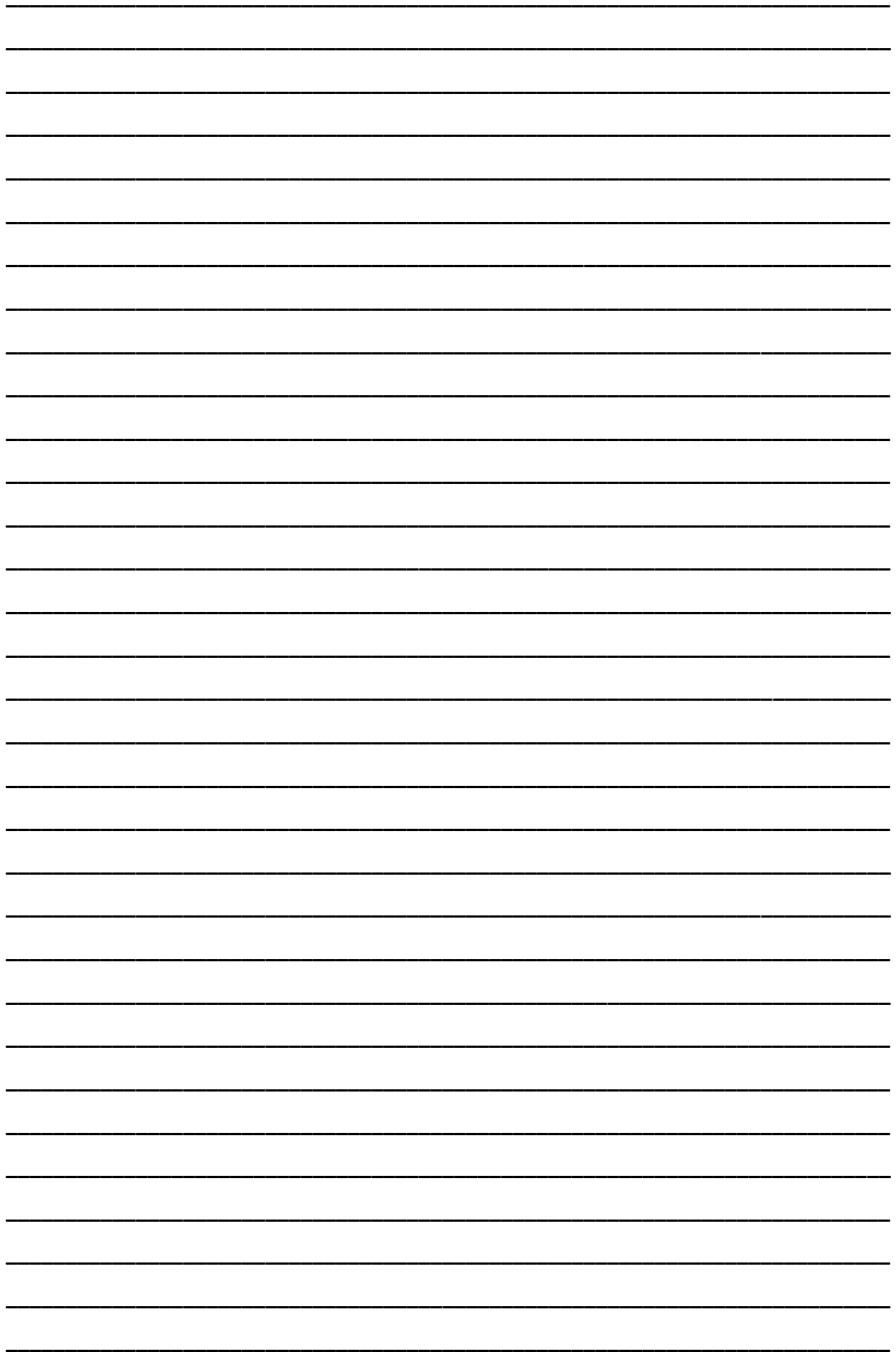
## **Task 9:**

**Research the following lifestyle modification techniques. Make notes on this page about how they work, what is good / bad about them etc...**

- 1. NHS Stop Smoking Service:**
- 2. Nicotine Replacement Therapy:**
- 3. Positive-Self Talk:**
- 4. Relaxation:**
- 5. Self-Help Groups:**
- 6. Counselling:**
- 7. Exercise:**
- 8. Timings of Meals:**
- 9. Balanced Diet:**








## Task 11:

Create a poster that summarises all of the below information around the topic: “Diet & Nutrition”.

# Diet Poster Task:

Create a poster explaining the below points about diet...!!!

- Define diet
- Calorie recommendations (why males and females are different)
- 5-a-day (why a different 5?) Why eat fruit & veg?
  - E.g vitamins and minerals
- Food groups (job of each one + a food e.g.) + Water consumption!!!
- Why different people need different diets (compare 2 people)
- Diet effects:
  - A good diet leads to...? (x5 explained points)
  - A poor diet leads to...? (x5 explained points)
- Images







**Task 12:**

Answer the questions below about NGB's and then see how many national governing bodies you can name below...

What is a national governing body?

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Why are they needed?

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What is an international governing body?

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**How many British NGB's can you name?**

FA =	SE =	TTE=
BAFA=	EG=	VE=
AGB=	BG=	RFL=
UKA=	EIHA=	RFU=
NE=	RE=	Any others that you might know...?
BE=	BR=	
ECB=	LTA=	•

**Task 13:** Create your own sporting quiz. This can be about anything sport related and must be 15 questions long. You will be using these in lesson when you start in September.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

