

# Haydock High School – Excellence in Exams

## Get Ready for...

Subject: GCSE PE

Exam Dates:

**Unit: Theory** 

Worth: 70%

### **Revision Materials:**

Suggested Topics I Should Revise	Ways I could revise:
know the name and location of the following bones in the human body: o cranium o vertebrae o ribs o sternum o clavicle o scapula o pelvis o humerus o ulna o radius o carpals o metacarpals o femur o patella o tibia o fibula o tarsals.	<ul> <li>Use a ruler to underline all key words when answering questions.</li> <li>Practice answering questions, to ensure that you have your timing correct. (use attached questions for each topic area)</li> <li>Mind maps</li> <li>Bullet points</li> <li>Use key words to link topics together</li> <li>Think of practical examples</li> <li>Link topic areas to sporting examples</li> <li>When answering 6 mark questions ensure that you include 6 or more pieces of information.</li> <li>Revision Tuesday and Friday lunch time, 1.30pm</li> </ul>

understand and be able to apply examples of how
the skeleton provides or allows:
o support
o posture
o protection
o movement
o blood cell production
o storage of minerals
know the definition of a synovial joint
know the following hinge joints:
o knee – articulating bones – femur, tibia
o elbow – articulating bones – humerus, radius,
ulna
know the following ball and socket joints:
o shoulder – articulating bones – humerus,
scapula
o hip – articulating bones – pelvis, femur
know the types of movement at hinge joints and
be able to apply them to examples from physical
activity/sport:
oflexion
o extension
lunger that we are af an even and at hall and a shot
know the types of movement at ball and socket
joints and be able to apply them to examples
from physical activity/sport: o flexion
o extension
o rotation
o abduction
o adduction
o circumduction
o en camadetion
know the roles of:
o ligament
o cartilage
o tendons
know the name and leastion of the following
know the name and location of the following
muscle groups in the human body and be able to
apply their use to examples from physical
activity/sport: o deltoid
o trapezius o latissimus dorsi
o pectorals
o biceps
o triceps

o abdominals
o quadriceps
o hamstrings
o gluteals
o gastrocnemius
5
know the definitions and roles of the following
and be able to apply them to examples from
physical activity/sport:
o agonist
o antagonist
o fixator – antagonistic muscle action
know the three classes of lever and their use in
physical activity and sport:
o 1st class – neck
o 2nd class – ankle
o 3rd class – elbow
U SIU Class – Elbow
know the definition of mechanical advantage
know the definition of meenanical advantage
know the location of the planes of movement in
the body and their application to physical activity
and sport:
o frontal
o transverse
o sagittal
know the location of the axes of rotation in the
body and their application to physical activity and
sport:
o frontal
o transverse
o longitudinal
know the double-circulatory system (systemic and
pulmonary)
painonary
know the different types of blood vessel:
o arteries
o capillaries
o veins
understand the pathway of blood through the
heart:
o atria
o ventricles
o bicuspid, tricuspid and semilunar valves
o septum and major blood vessels:
– aorta
– pulmonary artery

– vena cava – pulmonary vein
know the definitions of:
o heart rate
o stroke volume
o cardiac output
understand the pathway of air through the
respiratory system:
o mouth
o nose
o trachea
o bronchi
o bronchiole
o alveoli
know the role of respiratory muscles in breathing:
o diaphragm o intercostals
o Intercostais
know the definitions of:
o breathing rate
o tidal volume
o minute ventilation
understand about alveoli as the site of gas exchange
exchange
know the definitions of:
o aerobic exercise
o anaerobic exercise
be able to apply practical examples of aerobic and
anaerobic activities in relation to intensity and
duration
understand the short-term effects of exercise on:
o muscle temperature
o heart rate, stroke volume, cardiac output
o redistribution of blood flow during exercise
o respiratory rate, tidal volume, minute
ventilation
o oxygen to the working muscles
o lactic acid production
be able to apply the effects to examples from
physical activity/sport
the state of the state of the state of the state of the
be able to collect and use data relating to short-

term effects of exercise

understand the long-term effects of exercise on:	
o bone density	
o hypertrophy of muscle	
o muscular strength	
o muscular endurance	
o resistance to fatigue	
o hypertrophy of the heart	
o resting heart rate and resting stroke volume	
o cardiac output	
o rate of recovery	
o aerobic capacity	
o respiratory muscles	
o tidal volume and minute volume during exercise	
o capilliarisation	
he able to enably the offects to every place from	
be able to apply the effects to examples from	
physical activity/sport	
be able to collect and use data relating to long-	
term effects of exercise	
Know the following components of fitness:	
cardiovascular endurance/stamina	
o know the definition of cardiovascular	
endurance/stamina	
o be able to apply practical examples where this	
component is particularly important in physical	
activity and sport	
o know suitable tests for this component,	
including:	
<ul> <li>Cooper 12 minute run/walk test</li> </ul>	
– multi-stage fitness test	
muscular endurance	
o know the definition of muscular endurance	
o be able to apply practical examples where this	
component is particularly important in physical	
activity and sport	
o know suitable tests for this component,	
including:	
– press-up test	
– sit-up test	
speed	
o know the definition of speed	
o be able to apply practical examples where this	
component is particularly important in physical	
activity and sport	
o know suitable tests for this component,	
including:	
including.	

### – 30m sprint test

#### strength

o know the definition of strength o be able to apply practical examples of where this component is particularly important in physical activity and sport o know suitable tests for this component, including:

grip strength dynamometer test

- 1 Repetition Maximum (RM)

#### power

o know the definition of power
o be able to apply practical examples of where this component is particularly important in physical activity and sport
o know suitable tests for this component, including:
– 'standing jump' or 'vertical jump' tests
flexibility
o know the definition of flexibility

o be able to apply practical examples of where this component is particularly important in physical activity and sport o know suitable tests for this component, including:

- 'sit and reach' test

#### agility

o know the definition of agility o be able to apply practical examples of where this component is particularly important in physical activity and sport o know suitable tests for this component, including:

– Illinois agility test

#### balance

o know the definition of balance o be able to apply practical examples of where this component is particularly important in physical activity and sport o know suitable tests for this component, including:

- 'stork stand' test

co-ordination o know the definition of co-ordination o be able to apply practical examples of where

this component is particularly important in	
physical activity and sport	
o know suitable tests for this component,	
including:	
– 'wall throw' test	
reaction time	
o know the definition of reaction time	
o be able to apply practical examples of where	
this component is particularly important in	
physical activity and sport	
o know suitable tests for this component,	
including:	
<ul> <li>reaction time ruler test</li> </ul>	
be able to collect and use data relating to the	
components of fitness	
know the following definitions of principles of	
training and be able to apply them to personal	
exercise/training programmes:	
o specificity	
o overload	
o progression	
o reversibility	
know the definition of the elements of FITT	
(Frequency, Intensity, Time, Type) and be able to	
apply these elements to personal	
exercise/training programmes	
know different types of training, definitions and	
examples of:	
o continuous	
o fartlek	
o interval	
– circuit training	
– weight training	
– plyometrics	
– HIIT (High Intensity Interval Training)	
understand the key components of a warm up	
and be able to apply examples:	
o pulse raising	
o mobility	
o stretching	
o dynamic movements	
o skill rehearsal	
know the physical benefits of a warm up,	
including effects on:	

o warming up muscles/preparing the body for	
physical activity	
o body temperature	
o heart rate	
o flexibility of muscles and joints	
o pliability of ligaments and tendons	
o blood flow and oxygen to muscles	
o the speed of muscle contraction	
understand the key components of a cool down	
and be able to apply examples:	
o low intensity exercise	
o stretching	
know the physical benefits of a cool down,	
including:	
o helps the body's transition back to a resting	
state	
o gradually lowers heart rate	
o gradually lowers temperature	
o circulates blood and oxygen	
o gradually reduces breathing rate	
o increases removal of waste products such as	
lactic acid	
o reduces the risk of muscle soreness and	
stiffness	
o aids recovery by stretching muscles	
o alus recovery by stretching muscles	
understand how the risk of injury in physical	
activity and sport can be minimised and be able	
to apply examples, including:	
o personal protective equipment	
o correct clothing/footwear	
o appropriate level of competition	
o lifting and carrying equipment safely	
o use of warm up and cool down	
know potential hazards in a range of physical	
activity and sport settings and be able to apply	
examples, including:	
o sports hall	
o fitness centre	
o playing field	
o artificial outdoor areas	
o swimming pool	
be familiar with current trends in participation in	
physical activity and sport:	
o using different sources (such as Sport England,	
National Governing Bodies (NGBs) and	
Department of Culture, Media and Sport (DCMS))	
o of different social groups	

o in different physical activities and sports	
understand how different factors can affect	
participation, including:	
o age	
o gender	
o ethnicity	
o religion/culture	
o family	
o education	
o time/work commitments	
o cost/disposable income	
o disability	
o opportunity/access	
o discrimination	
o environment/climate	
o media coverage	
o role models	
understand strategies which can be used to	
improve participation:	
o promotion	
o provision	
o access	
be able to apply examples from physical	
activity/sport to participation issues	
understand the influence of the media on the	
commercialisation of physical activity and sport:	
o different types of media	
– social	
– internet	
– TV/visual	
– newspapers/magazines.	
know the meaning of commercialisation,	
including sport, sponsorship and the media (the	
golden triangle):	
o positive and negative effects of the media on	
commercialisation	
o be able to apply practical examples to these	
issues	
133463	
understand the influence of sponsorship on the	
commercialisation of physical activity and sport:	
o positive and negative effects of sponsorship on	
commercialisation	
a ha able to apply prostical averaging to the inverse	
o be able to apply practical examples to the issue of sponsorship	

- loneliness	
be able to apply the above to different age groups	
be able to respond to data about health, fitness and well-being	
know the definition of a balanced diet	
know the components of a balanced diet o carbohydrates	
o proteins o fats	
o minerals o vitamins	
o fibre	
o water and hydration	
unders tand the effect of diet and hydration on energy use in physical activity	
be able to apply practical examples from physical activity and sport to diet and hydration	
Analysing and Evaluating Performance (AEP)	

