

169 p of Work Sheets Imaginative Tasks for Classwork and Private Study with Answers and Explanations Suitable for all GCSE Physical Education Courses



Worksheet Topic
Acknowledgments & Introduction
Definitions & Classifications
Sport Club Organisation
Competition & Fair Play
Planning, Performing & Evaluating
Motor Skills
Memory
Feedback
Reactions
Learning
Arousal & Motivation
Mental Preparation
Components of Fitness
Fitness Testing
Smoking & Health
Body Typing
Personality & Performance
Age & Gender
Safety & Health
Skeletal System
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National Organisation
Olympics
Women in Sport
Local Participation
Sponsorship
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Hooliganism & Racist Behaviour
Summary Questions
Master Grid Sheet
Longer Questions



INTRODUCTION

In this Support Pack the emphasis is on helping understanding and learning rather than testing for assessment, although of course the sheets can be used in this way.

The worksheets are designed to:

- further stimulate the interest in the subject;
- provide clear, easy to use material for classwork and homework;
- provide extra information;
- reinforce the understanding and learning of material essential for examination purposes.

Questions are formulated in a variety of ways. Some of the questions simply require that facts be matched correctly. In this type of question incorrect 'distractors' are NOT used. The use of only correct information reinforces learning, and avoids the possibility of introducing misunderstanding. Other questions are more open ended to stimulate deeper thought and discussion. Questions are of varying difficulty, some with extension work designed to engage more able students.

The pack also includes a number of activities designed to involve students in the learning process in different ways, including, cut out figures, and a card game.



Open Skills and Closed Skills are not always totally separated, they can be considered as being at either end of a continuous system or continuum. Between the two ends of the continuum are skills made up of both closed and open elements. The diagram below represents this 'skills continuum'.



Task 1 For each of the activities listed below give a number from the diagram 'graph' above which you think shows the activities best position along the continuum, and fill in the bottom row of the grid provided or on the Master Grid Sheet.

It is quite difficult to judge where some skills should be placed, and sometimes there is no absolutely correct answer. Be prepared to explain your choices.

- **A** Receiving a netball pass.
- B Headspring.
- **C** Bowling in rounders.
- **D** Football penalty shot.
- E Basketball free shot.

- **F** Running a 400 metre race.
- **G** Running a marathon.
- **H** Putting in golf.
- I Orienteering.
- J Synchronised swimming.



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Work Sheet 18a Date:

Simple dropped ruler test for speed of reaction.



In the dropped ruler test the distance the ruler drops is proportional to the time passed. To help you convert the distance the ruler fell into actual time, you can use the conversion scale below or, you could make and use the timer opposite, graduated in milliseconds giving a direct reading in time.

	Distance fallen by ruler in mm	Reaction Time to nearest ms (0.001s)	Distance fallen by ruler in mm	Reaction Time to nearest ms (0.001s)	Distance fallen by ruler in mm	Reaction Time to nearest ms (0.001s)	
	0	0	100	143	200	202	
	5	32	105	146	205	205	
	10	45	110	150	210	207	
••••	15	55	115	153	215	209	
	20	64	120	156	220	212	
	25	71	125	160	225	214	
••••	30	78	130	163	230	217	
	35	85	135	166	235	219	
	40	90	140	169	240	221	
	45	96	145	172	245	224	
	50	101	150	175	250	226	
	55	106	155	178	255	228	
	60	111	160	181	260	230	
	65	115	165	184	265	233	
	70	120	170	186	270	235	
	75	124	175	189	275	237	
	80	128	180	192	280	239	
	85	132	185	194	285	241	
	90	136	190	197	290	243	
	95	139	195	199	295	245	

FELTHAM PRESS

Continued --->



Date:

Work in groups of 3. Tape the sheet to the tabletop. First, without any pre-practice at all, accurately time how quickly you can carry out the following exercise; start the stopwatch yourself, tap every white circle in the same order 5 times over (making 18 x 5 = 90 targets) and stop the clock yourself, record your result. Then repeat for every grey circle, in sequence, 5 times (making 18 x 5 = 90 targets), record your result. Then every star, in sequence, 5 times (making 18 x 5 = 90 targets), record your result. Now choose one different symbol each between yourselves to practice on. Concentrate on your symbol, tapping on it as fast as you can, learning the pattern, for 5 minutes. Then time yourselves again on all the symbols as before, carefully recording your results. Can you explain what has happened?



FELTHAM PRESS 30



Task 1 Match the letters on the inverted U graph with the correct numbered label, by filling in the bottom row of the grid provided.



- *Task* 2 Can you recall an occasion where your performance suffered as a result of:
 - a under-arousal?
 - **b** over-arousal?
- **Task 3** Can you recall an occasion in international sport where a performance suffered as a result of:
 - a under-arousal?
 - **b** over-arousal?



There are many components of physical activity related fitness, some of these components are health related, and some are skill related.



Task 1 Match each type of fitness component with the appropriate type of activity in which you think it is used and/or developed the most. Use the table above to help you decide (there will be many overlaps).

Type of fitness components

- 1 Press ups and squat thrusts
- 2 Weightlifting
- 3 Dance
- 4 Long distance running and swimming
- 5 Pole vaulting
- 6 Sprinting, football and squash
- 7 Jumping
- 8 Sumo wrestling
- 9 Fencing
- 10 Beam exercises and wind surfing

Activities

A Cardio-respiratory endurance

Continued --->

- B Muscular endurance
- C Strength
- **D** Mobility/flexibility
- E Agility
- **F** Speed
- **G** Power
- H Body composition
- I Balance
- J Co-ordination







Class:

Date:

Power is also known as explosive strength. It is a combination of speed and strength, and it is the rate at which you can work.

Power = Force x Distance Time

Let us compare two competitors in the High Jump, both with perfect technique, jumping the same height (2m), but performer A weighs 60kg and performer B weighs 70 Kg.

Task 1 Which one does common sense tell you must have exerted the greatest power?

This is a fairly easy example, but now check your common sense guess.

Work out the equation in a simplified way, by taking the jumper's weight to be equivalent to FORCE, and assuming the time taken to clear the bar from takeoff was 1 second, and substituting these figures into the equation.

Performer A	Performer B				
Power = <u>60 x 2m</u> =	Power = <u>70 x 2m</u> =				
1	1				

Task 2 Now imagine that performer A jumps 2m 35cm, but performer B does not improve and still jumps 2m.

> Which person does common sense tell you must have exerted the greatest power in this case?

This is not so easy to estimate.

Now check your common sense answer by using the same equation again but with the new values.

Performer A	Performer B				
Power = $\frac{60 \times 2.35m}{1}$ =	Power = $\frac{70 \times 2m}{1}$ =				

If you were one of those people who tend to get put off by equations, hopefully you can now see how useful they can be in checking exactly what is going on in sport performances.



This chart can be used to indicate how much a person is at risk from heart disease. From each vertical column one description which fits the subject best, and its score is chosen. These scores are then added up to give a risk factor which can be matched to the estimated risk. These estimated risks are set out in the table below the chart. Study the chart and then answer the questions on the following sheet.

Age	Sex	Weight	% animal fat in diet	Exercise	Tobacco smoking	Historyof heart disease	Blood pressure	
10-20	Female under 40	More than 5lbs below ideal weight	No animal fat	Hard manual job & exercise	Non smoker	None	Upper reading 100	V
21-30	Female 40-50	Within 5lbs of ideal weight	animal fat	Manual job & moderate exercise	Cigar or pipe smoker	1 relative over 60	Upper reading 120	V
31-40	Female 40-50	36-40lbs overweight	20% animal fat	Office job & hard exercise	10 cigarettes a day or less	2 relatives over 60	Upper reading 140	V
41-50		40-50lbs overweight	30% animal fat	Office job & light exercise	20 cigarettes a day	1 relative under 60	Upper reading 160	
51-60	Stocky male	50 <mark>-60lb</mark> s overweight	40% animal fat	Office job & moderate exercise	30 cigarettes a day	2 relatives under 60	Upper reading 180	
61 & over	Bald stocky male	6 <mark>1lbs</mark> + overweight	50% animal fat	No exercise at all	40 cigarettes a day	3 r <mark>elativ</mark> es under 60	Upper reading 200 or more	V
Category Score	Category Score	Category Score	Category Score	Category Score	Category Score	Category Score	Category Score	RISK FACTOR

RISK FACTOR	ESTIMATED RISK	RISK FACTOR	ESTIMATED RISK
Less than 12	Well below average risk	25-31	Moderate risk
12-17	Below average risk	32-40	Dangerous risk
18-24	Average risk	41 & over	Danger - see Doctor!

Continued --->



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The worksheets, closely follow and compliment the main text, and are designed to:

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Questions are formulated in a variety of ways. Some of the questions simply require that facts be matched correctly. In this type of question incorrect 'distractors' are NOT used. The use of only correct information reinforces learning, and avoids the possibility of introducing misunderstanding. Other questions are more open ended to stimulate deeper thought and discussion. Questions are of varying difficulty, some with extension work designed to engage more able students.

The pack also includes a number of activities designed to involve students in the learning process in different ways, including, cut out figures, and a card game.

The worksheets are designed so that they can either; be issued to become part of his or her notes, forming a useful reference and revision resource, or can be issued and reissued (saving on photocopying costs and time) with pupils filling in their responses on a separate sheet. For purposes of economy and ease of marking of simple matching pairs questions, where no advantage is to be gained by the pupil writing out the answer, the Master Grid Sheet (master supplied), may be used.

Answers are supplied where appropriate. With more open-ended questions examples of possible answers are given.





Class:

Date:

Six areas of activity are identified in P.E., they are:

- 1 Games
- 2 Gymnastic activities
- 3 Dance

- 4 Athletic activities
- Outdoor and adventurous activities 5
- 6 Swimming

Task 1 List 3 examples of each of the above.

- 1 e.g. Football, Hockey, Rugby.
- 2 e.g. Gymnastics; Trampolining; Diving.
- 3 e.g. Ballet; Line Dance; Pairs skating.
- 4 e.g. Running; Jumping; Throwing.

5 e.g. Climbing; Sailing; Skiing.

6 e.g. Swimming; Floating; Sub-Aqua.

Task 2 Give 2 examples of physical activities that you think:

- could be called sport but are not normally considered to be part of P.E.; a e.g. Horse-riding; Hang gliding.
- **b** could be called P.E. but not sport. e.g. Circuit training; Rope climbing.

