# Work Sheets 

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

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Suppopt Pack

## 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.
F Running a 400 metre race.
B Headspring.
G Running a marathon.
C Bowling in rounders.
H Putting in golf.
D Football penalty shot.
I Orienteering.
E Basketball free shot.
J Synchronised swimming.




Support Pack
Class:

## Work Sheet 20

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 $18 \times 5=90$ targets) and stop the clock yourself, record your result. Then repeat for every grey circle, in sequence, 5 times (making $18 \times 5=90$ targets), record your result. Then every star, in sequence, 5 times (making $18 \times 5=90$ 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?


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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.

1 Under-arousal
4 Optimum point
2 Arousal
5 Performance
3 Over-arousal


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?

Name:

Class:
Date:

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


Continued..$->$

Support Pack

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

Power $=\frac{60 \times 2 \mathrm{~m}}{1}=$

## Performer B

$$
\text { Power }=\frac{70 \times 2 \mathrm{~m}}{1}=
$$

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

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

Power $=\frac{60 \times 2.35 \mathrm{~m}}{1}=\quad$ Power $=\frac{70 \times 2 \mathrm{~m}}{1}=$

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.

Name:

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 |
|  | Female $40-50$ | Within 5lbs of ideal weight | $10 \%$ animal fat | Manual job \& moderate exercise | Cigar or pipe smoker | 1 relative over 60 | Upper reading 120 |
|  | Female $40-50$ | 36-40lbs overweight | $\begin{gathered} 20 \% \\ \text { animal fat } \end{gathered}$ | Office job \& hard exercise | 10 cigarettes a day or less | 2 relatives over 60 | Upper reading 140 |
| $41-50$ |  | 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 | 50-601bs overweight | 40\% animal fat | Office job \& moderate exercise | 30 cigarettes a day | 2 relatives under 60 | Upper reading 180 |
| 61 \& over | Bald stocky male | 61/bs + overweight | 50\% animal fat | No exercise at all | 40 cigarettes a day | 3 relatives under 60 | Upper reading 200 or more |
| Category Score | Category Score | Category Score | Category Score | Category Score | Category Score | Category Score | Category Score |


| RISK FACTOR | ESTIMATED RISK |
| :--- | :--- |
| Less than 12 | Well below average risk |
| $12-17$ | Below average risk |
| $18-24$ | Average risk |


| RISK FACTOR | ESTIMATED RISK |
| :--- | :--- |
| $25-31$ | Moderate risk |
| $32-40$ | Dangerous risk |
| 41 \& over | Danger - see Doctor! |

Continued $-\infty$-a>


## Solutions

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Skeletal System
Muscles
Respiratory System
Heart \& Circulation
Nervous \& Hormonal Systems
Digestive System
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## INTRODUCTION

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

The worksheets, closely follow and compliment the main text, and 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.

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.

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

1 Games
2 Gymnastic activities
3 Dance

4 Athletic activities
5 Outdoor and adventurous activities
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:

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

