

## Assessment Task Notification

<b>Course:</b>	Preliminary Senior Science
<b>Teacher:</b>	Mrs Pawsey
<b>Task Number:</b>	3
<b>Date of Task:</b>	Term 3, Week 5, Friday 19 <sup>th</sup> August 2016. Task to be submitted at the beginning of Period 2.
<b>Task Value:</b>	25%
<b>Nature of Task:</b>	Research Task Knowing how the body functions has led to an increased understanding of how to protect it and maintain good health. We now know enough about parts of the body, such as the eyes, ears, brain, limbs and backbone, to be able to design appropriate equipment. Your task is to gather information relating to how increases in understanding about the structure of the human body have impacted on safety practices.
<b>Word/Page Limit:</b>	Section 1: 1-1 ½ pages Section 2: Completed table Section 3: A4 pamphlet or 3-5 min video
<b>Other Information:</b>	Students will be required to complete a research task (see attached document for details), to be submitted at the beginning of the lesson
<b>Outcomes Assessed:</b>	<b>P4:</b> Identifies applications of science that affect society and the environment <b>P9:</b> Describes the structure of body organs and systems <b>P12:</b> Discusses the validity and reliability of data gathered from first-hand investigations and secondary sources <b>P13:</b> Identifies appropriate terminology and reporting styles to communicate information and understanding in science <b>P14:</b> Draws valid conclusions from gathered data and information

## Preliminary Senior Science – Research Assessment Task

**Task: 3**

**Weighting: 25%**

**Due: Friday 19<sup>th</sup> August 2016 at the start of Period 2**

### Task Details:

- All questions listed below relate to syllabus dot points from Part 6 of the topic 'Humans at Work'.
- Research information to answer each of the questions listed.
- Use the marking scheme provided for each section to ensure that all relevant information has been provided
  
- **Presentation of answers:**
  - Word processed using font at least size 12, 1 ½ spaced
  - Cover sheet attached to the front of your assessment task
  - Start a new page for each section, clearly marked with the question number being answered
  - Student number on each page submitted
  - Attach the question and marking scheme sheet to the front of each answer by stapling them together in the top left hand corner
  - Reference list included for all questions and presented **at the end of each answer.**

## Preliminary Senior Science – Research Assessment Task Cover Sheet

**Task: 3**

**Weighting: 25%**

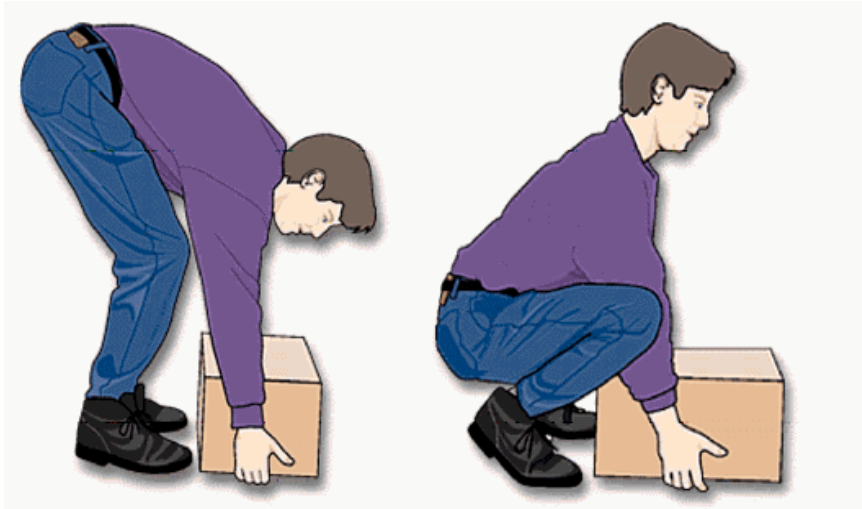
**Due: Friday 19<sup>th</sup> August 2016 at the start of Period 2**

<b>Section</b>	<b>Mark Allocated</b>	<b>Mark</b>
1	14	
2	12	
3	12	
Overall Presentation and reference list format	2	
<b>Total Marks</b>	40	
<b>Comment:</b>		

**Grade:**

## Section 1

Look the diagrams provided below.



**Analyse safe lifting practices, relative to the muscles used, to minimise injury.**

In your answer:

- Identify the muscles being used to lift the load in each diagram
- Include a diagram to clearly show the location of these muscles in the human body.
- Identify the diagram which shows the safer way to lift the load. Explain.

### Marking Scheme:

	Marking Criteria	Mark
Understanding of muscles in the human body P9	• Thorough understanding of the name and location of muscles, specific to each diagram	4
	• Satisfactory understanding of the name and location of muscles, specific to each diagram	3
	• Basic understanding of the name and/or location of muscles related to lifting	2
	• Elementary understanding of muscles related to lifting	1
Diagram(s) P13	• Labelled diagram which presents comprehensive, relevant information about muscles clearly and succinctly	3
	• Labelled diagram which presents relevant information about muscles clearly	2
	• Relevant diagram which presents some information about muscles	1
Understanding of how to minimise injury P14	• Extensively explains the preferred method of lifting, using valid scientific reasons	5
	• Thoroughly explains the preferred method of lifting, using valid scientific reasons	4
	• Satisfactorily explains the preferred method of lifting, using valid reasons	3
	• Identifies and attempts to explain the preferred method of lifting	2
	• Identifies the preferred method of lifting	1
Use of secondary sources P12	• Information very effectively collated and summarised using a range of reliable resources referenced appropriately	2
	• Information satisfactorily summarised using resources which have been acknowledged	1
<b>Total Marks</b>		<b>/14</b>

## Section 2

Gather, analyse and process information from secondary sources to demonstrate understanding of strengthening exercises that can be used in **one** sport AND **one** occupation.

Present your information in a table with the following headings:

- Sport/Occupation
- Parts of the body mostly used for this sport/occupation
- Specific muscles involved
- Injuries that can be sustained
- Brief description of exercises to strengthen muscles

### Marking Scheme:

	<b>Marking Criteria</b>	<b>Mark</b>
Structure and function of the human body	<ul style="list-style-type: none"><li>• Detailed knowledge of specific parts of the body used and possible injuries that can be sustained in one sport and one occupation</li></ul>	4
P9	<ul style="list-style-type: none"><li>• Satisfactory knowledge of parts of the body used and possible injuries that can be sustained in one sport and one occupation</li><li>• Basic knowledge of parts of the body used and possible injuries that can be sustained in one sport and one occupation</li><li>• Very limited knowledge of parts of the body used and possible injuries that can be sustained in one sport and one occupation</li></ul>	3 2 1
Presenting information in a table	<ul style="list-style-type: none"><li>• Very competently constructs and completes a table with suitable headings and appropriate formatting to display information clearly</li><li>• Satisfactorily constructs and completes a table with suitable headings</li><li>• Basic understanding of the purpose, construction and format of a table</li></ul>	3 2 1
P13		
Strengthening exercises	<ul style="list-style-type: none"><li>• Clear, succinct description of strengthening exercises relating to the identified injuries/parts of the body for both one sport and occupation</li><li>• Relevant description of strengthening exercises suitable for both the chosen sport and occupation</li><li>• Basic description of strengthening exercises</li></ul>	3 2 1
P4		
Use of secondary sources	<ul style="list-style-type: none"><li>• Information very effectively collated and summarised using a range of reliable resources referenced appropriately</li><li>• Information satisfactorily summarised using resources which have been acknowledged</li></ul>	2 1
P12		
<b>Total Marks</b>		/ 12

