## 2010 Science

## Standard Grade Foundation

## Finalised Marking Instructions

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## Foundation Level

## Marking Scheme

Please note that FRACTIONAL marks should NOT be awarded for responses to questions on this paper.
Please note that where a question specifies circling or underlining, other forms of clearly indicating a response are acceptable.

|  |  |  |  |  |  | Space for Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 (a) | 94 and | 90 | both required, any order |  | PS1 |  |
| (b) | food and enzy | mes and digestion | all required, any order |  | PS1 |  |
| 2 | Lung cancer, heart disease, bronchitis |  |  |  | KU2 |  |
|  |  |  | All three correct Two correct | $\begin{array}{r} 2 \text { marks } \\ 1 \text { mark } \\ \text { any order } \end{array}$ |  |  |
| $3$ <br> (a) | Any one from <br> Metal <br> Plastic <br> Ashes <br> Clothes | Garden waste Cardboard Food |  |  | KU1 | Not: glass or paper (given) <br> Not: named plastic or metal <br> Not: named objects only eg cans Ignore additional information eg metal (cans) |
| (b) Idea that it can be used again |  |  |  |  | KU1 |  |



| 8 |  | Meat (or alternative eg chicken, fish, protein, beans) <br> Bread or Cereals (or carbohydrates eg pasta, wheat, starch) <br> 1 mark each | KU2 | Space for Notes |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Not: sugar fats water |
|  | (b) | Obesity, anorexia, heart disease, bulimia, high blood pressure | KU1 |  |
| 9 | (a) | 1 and 4 | PS1 |  |
|  | (b) | The idea of investigating the height the tennis ball is dropped from eg if the height makes any difference | PS1 |  |
| 10 | (a) | Stays the same | PS1 |  |
|  | (b) | 200 | PS1 | Accept: correct answer from space for working Ignore: transcription error |
| 11 | (a) | A (water and shelter) | KU1 |  |
|  | (b) | 4 | KU1 |  |


|  |  |  | Space for Notes |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 2}$ | (a) | 4 | KU1 |  |
|  | (b) | 2 | KU1 |  |
|  |  |  |  |  |
| $\mathbf{1 3}$ |  | C (tobacco smoke) | KU1 |  |
| $\mathbf{1 4}$ | (a) | (Crude) oil | KU1 |  |
|  | (b) | Idea that fossil fuels are finite/will run out/are non-renewable | KU1 | Not: less pollution |
|  | (c) | Oxygen | KU1 |  |
| $\mathbf{1 5}$ |  | Pattern dial | PS2 |  |
|  |  |  |  |  |


|  |  |  |  | Space for Notes |
| :---: | :---: | :---: | :---: | :---: |
| $16 \quad$ (a) | 1 Are slow (moving) <br> 2 Have no defences/defenceless | both ideas required | PS1 |  |
| (b) | 43 |  | PS1 |  |
| (c) | Unpleasant substance or Tastes bad |  | PS1 |  |
| (d) | Do not have to use (toxic) pesticides |  | PS1 |  |
| $17 \quad$ (a) | 2 |  | PS1 |  |
| (b) | Iron |  | PS1 |  |
| (c) | 150 2 marks <br> $75(\%)$ 1 mark |  | PS2 | Accept: correct answer from space for working Accept: 75 from space for working for 1 mark Ignore: transcription errors |
| 18 (a) | Electrical conductivity |  | KU1 |  |
| (b) | Strength |  | KU1 |  |
| (c) | Thermal conductivity |  | KU1 |  |



|  |  |  | Space for Notes |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{2 1}$ | B | KU1 |  |  |
| $\mathbf{2 2}$ | Triangles | KU1 |  |  |
|  |  | both required | KU1 |  |
| $\mathbf{2 3}$ | (a) | Crabeater seal and emperor penguin | KU1 |  |
|  | (b) Any one from <br> Toefish <br> (c) Either <br> Plankton $\rightarrow$ krill $\rightarrow$ toothfish $\rightarrow$ emperor penguin <br> or <br> Plankton $\rightarrow$ squid $\rightarrow$ toothfish $\rightarrow$ emperor penguin  | KU 1 |  |  |
|  |  | KU1 |  |  |
|  |  |  |  |  |


|  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{2 4}$ | (a) $\quad$ Idea of as age increases, (daily) energy needs increase | PS1 |  |
|  | (b) $\quad$ Any value between 1900 and 2100 | PS1 |  |
| $\mathbf{2 5}$ | Idea of as distance (between birds' nests) increases, number of nests <br> attacked (by weasels) decreases <br> (or vice versa) | PS1 |  |
|  |  |  |  |

[END OF MARKING INSTRUCTIONS]

