

Approximate mark scheme for Lab 4: Present results in a short essay

The abstract: 5-6 sentences on QHO and uncertainty principle. Text must be original.	10%
Create figures from the exercises in the script.	Used below
<p>Short essay on QHO, < 800 words, bringing in ideas from the Uncertainty Principle.</p> <ul style="list-style-type: none"> • Bohr's correspondence principle. • Define uncertainties. • Relation of uncertainties to zero point energy. • Bring in other ideas if you want– the key is to explain them clearly. For example, the <i>virial theorem</i> which describes the relation between $\langle k.e. \rangle$ and $\langle p.e. \rangle$. <p>Your mini-essay should assume knowledge from 2nd year physics. It should contain integrated formula and can include ideas from a book or a web source (please reference), the key thing is that it is written in your own words.</p> <p>Do not cut and paste the original.</p>	<p>30% for the text and equations</p> <p>40% for the figures and their captions</p>
Clear links between figures and text must exist.	10%
Have up to 5 references. Go easy on web references, books are better.	10%