

Imaging:

- **Diagram,**
- **Explanation of how image is obtained,**
- **type of radiation,**
- **typical resolution,**
- **enhancing image,**
- **number of bits per pixel.**

Sensor:

- **Circuit diagram,**
- **explanation,**
- **typical sensitivity,**
- **typical response time,**
- **calibration**

Signalling:

- **Diagram**
- **Explanation of how transmitted**
- **How might noise affect the system?**
- **Approximate rate of transfer of information**
- **Speed of signal**
- **distance message sent**
- **Time for message sent**

Material

- **Internal structure**
- **Two properties for its purpose**
- **One factor which influences choice (cost, etc.)**

Superposition:

- **Diagram,**
- **Describe what would be seen**
- **Explanation**
- **Practical applications**

Quantum:

- **Diagram**
- **Observation**
- **Explanation in quantum terms**
- **Example of practical device related**

Remote measuring:

- **Diagram,**
- **Explanation,**
- **How distance calculated,**
- **factors causing uncertainty,**
- **speed of signal**