

### Studyclix Topic Analysis - Leaving Cert Physics

| Exam Question                      | 2019                       | 2018             | 2017                        | 2016                                  | 2015                               | 2014           | 2013          | 2012          | 2011                  | 2010                  | 2009          | 2008              | 2007                  | 2006          | 2005           | FREQUENCY |   |
|------------------------------------|----------------------------|------------------|-----------------------------|---------------------------------------|------------------------------------|----------------|---------------|---------------|-----------------------|-----------------------|---------------|-------------------|-----------------------|---------------|----------------|-----------|---|
| Applied Electricity                | 7                          | 5 (j)            | 5 (j), 12 (d)(ii)           | 12 (d)(ii), 5 (j)                     | 10 (b), 5 (j)                      | 11 (b), 5 (j)  | 10 (b), 5 (j) | 10 (b), 5 (j) | 10 (b), 5 (j), 11 (b) | 10 (b), 5 (j)         | 10 (b), 5 (j) | 10 (b), 5 (j)     | 10 (b), 5 (j)         | 10 (b), 5 (j) | 5 (j)          | 13.5      |   |
| Circular Motion                    |                            | 6 (a), 11 (g)    | 11 (e)                      | 6, 12 (c)                             | 6                                  | 5 (b)          | 6             | 11, 12 (a)    | 6 (c)                 |                       | 6, 5 (b)      | 6                 |                       | 6             | 6              | 11.5      |   |
| Current Electricity                | 5 (b) & 11                 | 10 (b)           | 5 (h), 11 (b)               | 5 (g)                                 | 5 (g), 11 (e)                      | 5 (f)          | 8             |               | 11 (e)                | 8                     | 12 (b)        | 5 (g)             | 11 (f)                | 9, 5 (h)      | 5 (h)          | 9.5       |   |
| Electrostatics                     | 7                          | 5 (g)-(h)        | 5 (e)-(f)                   | 12 (b)                                | 8                                  | 9              | 12 (c)        |               | 9 (a)-(c)             | 5 (e), 12 (d)         | 5 (f)         | 5 (f)             | 8                     | 5 (g)         | 10, 5 (g)      | 11.5      |   |
| Electric Circuits                  |                            |                  | 8, 11 (c)                   |                                       | 5 (h)                              | 5 (g)          | 8             | 9             | 5 (f), 11 (g)         |                       | 5 (g)         |                   |                       | 5 (f)         | 9              | 7.5       |   |
| Electromagnetism                   |                            | 9                | 11 (a)                      | 10                                    | 10 (a)-(b), 11 (e)-(f), 11 (f)-(g) | 11 (a), 12 (d) | 5 (g)         | 11            | 11 (f)                | 5 (g)-(h)             | 5 (h), 10 (b) | 8                 | 5 (h), 12 (c)         | 9, 11         | 11 (b), 12 (b) | 16.5      |   |
| Force, Mass & Momentum             | Q5 (c), 11 & 12 (a)        | 5 (a)            | 5 (b)                       | 12 (a)                                | 12 (a)                             | 6              | 6, 5 (b)      | 6             | 5 (a)                 | 6                     | 6             | 6, 11 (b), 11 (c) | 12 (a)                | 5 (a)         |                | 11        |   |
| Heat & Heat Transfer               | Q5 (e)&(f)                 | 8, 5 (c)         | 11 (f)-(g)                  | 7                                     | 5 (e)                              | 12 (c), 5 (d)  | 5 (c)-(d)     | 5 (f), 12 (c) | 7 (a)-(b)             |                       | 11 (c)        | 7                 | 5 (c)                 | 5 (c), 12 (c) |                | 11        |   |
| Light                              | 5 (a) & (d), 6, 10, 12 (c) | 9, 5 (d), 11 (c) | 7                           | 5 (d), 11 (c)-(e), 11 (g)             | 6                                  | 7, 9, 5 (e)    | 11, 12 (b)    | 7, 5 (e)      | 8 (a), 11 (b), 11 (d) | 11, 5 (c)             | 7             | 5 (d)             | 5 (d)                 | 5 (d)         | 7              | 18.5      |   |
| Magnets & Magnetic Fields          | 9                          | 11 (b)           |                             |                                       |                                    |                |               | 5 (h)         |                       |                       |               |                   |                       | 5 (g)         | 11             | 5 (f)     | 3 |
| Nuclear Energy                     |                            | 8                | 5 (i)                       | 9                                     |                                    | 8, 5 (i)       | 9, 5 (i)      | 8             | 5 (i)                 | 5 (i), 12 (b)         | 12 (d)        | 11 (d), 12 (c)    | 7, 11                 | 8, 5 (i)      |                | 13        |   |
| Particle Physics                   | 5 (j) & 12 (d)             | 5 (j), 10 (a)    | 9, 5 (j), 11 (h), 12 (d)(i) | 5 (j), 12 (d)(i)                      | 10 (a), 5 (j)                      | 11 (a), 5 (j)  | 10 (a), 5 (j) | 10 (a), 5 (j) | 10 (a), 5 (j)         | 10 (a), 5 (j), 12 (b) | 10 (a), 5 (j) | 10 (a), 5 (j)     | 10 (a), 5 (j)         | 10 (a), 5 (j) | 5 (j), 11 (a)  | 16        |   |
| Potential Difference               | Q5 (a)                     |                  |                             |                                       |                                    |                | 5 (f)         |               |                       |                       | 9             |                   | 10 (a)                |               |                | 2         |   |
| Capacitance                        |                            | 12 (c)           |                             | 5 (f)                                 | 5 (f)                              | 9              |               |               | 5 (e)                 | 5 (f)                 | 9             | 12 (d)            | 5 (f)                 | 12 (b)        | 5 (e)          | 6.5       |   |
| Moments                            |                            | 5 (b)            | 12 (a)                      |                                       |                                    |                |               |               | 6 (a)                 |                       |               |                   |                       | 5 (b)         |                | 2         |   |
| Density & Pressure                 | Q5 (b)                     |                  | 5 (a)                       |                                       |                                    | 5 (a)          |               | 6, 5 (g)      |                       |                       | 5 (a)         | 5 (a), 5 (b)      | 5 (a)                 | 12 (a)        | 5 (a)-(b)      | 6         |   |
| Gravity                            |                            |                  |                             |                                       | 6                                  |                | 6             | 6             | 5 (b)                 | 6                     |               | 6                 |                       |               |                | 5.5       |   |
| Mirrors & Reflection               | 12 (c)                     | 11 (d)-(f)       | 12 (c)                      |                                       |                                    | 12 (b)         |               |               | 5 (c)                 |                       | 5 (e)         |                   |                       |               | 5 (d)          | 4         |   |
| Lenses & Refraction                |                            |                  |                             | 5 (c), 11 (a), 11 (b)                 | 5 (c), 12 (b)                      | 11 (b)         | 5 (e)         | 12 (b), 5 (d) | 12 (b)                | 5 (b)                 | 12 (c)        | 9                 | 5 (e)                 | 7             |                | 15        |   |
| Resistance, Resistivity            | 12 (d)                     | 5 (i)            | 8                           | 10                                    |                                    | 10             | 8             | 9             | 12 (c)                | 8                     |               | 7                 | 9                     | 9             |                | 10        |   |
| Semiconductors                     | 12 (b)                     | 12 (d)           |                             | 8                                     |                                    |                |               |               |                       |                       |               |                   |                       |               |                | 1.5       |   |
| Simple Harmonic Motion             |                            | 12 (a)           | 6                           | 6                                     | 5 (b)                              | 12             | 12 (a)        | 5 (b)         | 12 (a)                |                       | 12 (a)        |                   | 6                     |               |                | 7         |   |
| Speed, Displacement & Acceleration | 6                          |                  | 6                           | 5 (b)                                 | 12 (a)                             |                | 5 (a)         | 6, 5 (c)      |                       |                       | 6             | 12 (a)            | 12 (a)                | 6             |                | 7         |   |
| Temperature & Thermometers         |                            |                  | 5 (c)                       | 7, 5 (f)                              | 12 (c)                             | 5 (c)          | 12 (d)        |               | 7 (c)                 |                       | 5 (c)         |                   |                       |               | 5 (c)          | 5         |   |
| Radioactivity                      | 5 (h) (i) & 11             | 12 (b)           | 12 (b)                      | 9, 12 (a)                             | 5 (i), 12 (d)                      | 11 (a)         | 9             | 5 (i)         | 12 (d)                |                       | 12 (d)        | 5 (i)             | 12 (d)                | 10 (a)        | 8              | 9         |   |
| The Electron                       | 8 & 12 (b)                 | 5 (f), 12 (d)    | 10                          | 5 (h), 11 (f), 11 (h), 12 (a), 12 (b) | 7                                  | 5 (b)          | 5 (h)         | 12 (d)        | 5 (g)-(h)             | 9                     | 8, 5 (i)      | 11, 5 (h)         | 5 (i)                 | 12 (d)        | 5 (i), 12 (d)  | 14        |   |
| Vectors & Scalars                  |                            | 6 (b)            |                             |                                       | 5 (a)                              | 6              |               | 5 (a)         |                       |                       |               |                   |                       | 12 (a)        |                | 3         |   |
| Vibration & Sound                  | 10                         | 7                | 5 (g)                       | 5 (e), 12 (c)                         | 9                                  |                | 7             | 11            | 8 (a), 8 (b)          | 12 (c)                | 5 (d)         | 12 (b), 5 (c)     | 12 (b)                | 11            | 12 (c)         | 10.5      |   |
| Waves & Wave Motion                | 10                         | 5 (d), 11 (a)    | 7, 5 (d)                    | 12 (c)                                | 9, 5 (d)                           | 10             | 7             | 8 (a), 5 (d)  | 7, 11, 12 (c)         |                       | 12 (b)        | 7                 | 11, 5 (e)             |               | 12 (c)         | 13.5      |   |
| Work, Energy & Power               |                            | 5 (c)            | 6                           | 7, 5 (a)                              | 12 (a)                             |                | 12 (a)        | 11, 12 (a)    | 11 (a), 11 (c)        | 9                     | 12 (c)        | 7, 5 (e), 12 (a)  | 5 (a), 10 (b), 11 (g) | 12 (c)        | 12 (a)         | 12.5      |   |

#### Our Predictions:

- Light has the highest frequency score and appears in some way every year, this topic should be learned comprehensively
- Nuclear Energy did not appear in any way in 2019; this is unusual and may indicate they will include it this year as it's a novel topic
- Both Lenses & Refraction and Gravity appear to be due an appearance, either in Shorts Qs or Long Qs
- Vibration & Sound seems sure to continue its strong consistent appearance on the paper, and often appears as parts of other questions

#### KEY:

Long Question = 1

Short Question = 0.5