

### Studyclix Topic Analysis - Leaving Cert Biology Experiments

Exam Question	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	FREQUENCY
Investigate the growth of leaf yeast using agar plates	Q9 (a) & (b)			Q8 (b)			Q8 (b)		Q9 (b) (iv)			Q8 (a) & (b)		Q9 (a) & (b)	4.4
Investigate the effect of IAA growth regulator on plant tissue				Q8 (c)							Q8 (a) & (b)		Q7 (b) (i)		1.4
Isolate DNA from a plant tissue		Q9 (b) (iv)		Q7 (a) & (b)				Q9 (a) & (b)	Q9 (b) (iii)				Q7 (b) (iii)	Q8 (a) & (b)	3.6
Ecology Experiments (combined)		Q7 (a) & (b)	Q10 (b) (i)				Q7 (b)				Q7 (b)		Q9 (a) & (b)		4.2
Investigate the effect of heat denaturation on the rate of catalase activity							Q8 (b)				Q9 (a) & (b)	Q7 (a) & (b)			3
The Scientific Method	Q7 (a)	Q9 (a)	Q7 (a)	Q9 (a) & (b)	Q9 (a)	Q9 (a)	Q7 (a)	Q7 (a) & (b)	Q8 (a)		Q3			Q2	5.4
Prepare and examine animal & plant cell using the light microscope			Q7 (b) (iii)		Q8 (b)	Q9 (b) (iii)			Q9 (b) (i)				Q8 (b)		2.6
Investigate the effect water, oxygen and temperature on germination		Q9 (b) (i)			Q7 (a) & (b)	Q9 (b) (iv)	Q7 (b) (v)			Q8 (a) & (b)					2.6
Dissect, display and identify an ox's or sheep's heart					Q9 (b)		Q7 (b) (i)		Q7 (a) & (b)						2.2
Investigate the effect of pH & temperature on the rate of enzyme activity		Q8 (a) & (b)		Q7 (c)			Q9 (b)								3
Prepare an enzyme immobilisation and examine its application			Q7 (b) (iv)							Q9 (a) & (b)				Q7 (a) & (b)	2.2
Investigate the influence of light intensity or carbon dioxide on the rate of photosynthesis	Q8 (a) & (b)					Q9 (b) (i)			Q9 (b) (ii)	Q12 (c)		Q9 (a) & (b)			2.4
Be familiar with and use the light microscope	Q7 (b) (iii)				Q8 (a)		Q7 (b) (viii)								1.2
Prepare and examine microscopically the transverse section of a dicotyledonous stem (X100, X400)		Q9 (b) (ii)						Q8 (b) (iv)		Q7 (a) & (b)			Q14 (c) (iv)		1.6
Conduct any activity to demonstrate osmosis		Q9 (b) (iii)				Q9 (b) (ii)	Q7 (b) (vi)								0.6
To test for starch, fat, reducing sugars, and protein	Q7 (b) (iv)		Q7 (b) (i)						Q9 (b) (v)				Q7 (a)		0.8
Investigate the effect of exercise on the breathing rate or pulse rate of a human			Q8 (a) & (b)					Q8 (b) (iii)							1.2
Use starch agar or skimmed milk plates to show digestive activity during germination			Q9 (a) & (b)				Q7 (b) (iii)						Q7 (b) (ii)		1.4
Prepare and show the production of alcohol from yeast	Q7 (b) (ii)														0.2

#### Our Predictions:

- Scientific Method is frequently asked so it is likely to appear as a part of a question
- An enzyme experiment question, most likely to appear is the enzyme immobilisation and examine its application
- Ecology experiment
- The isolation of DNA from a plant tissue
- The preparation of a plant and animal cell

#### KEY :

Long Question = 1

Short Question = 0.2