

## Studyclix Topic Analysis - Leaving Cert Biology Experiments

Exam Question	2020	2019	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		Q 7 (b)(iii)				Q 8 (c)							Q8 (a) & (b)		Q7 (b) (i)		1.6
Isolate DNA from a plant tissue		Q 7 (b)(ii)		Q9 (b) (iv)		Q7 (a) & (b)				Q9 (a) & (b)	Q9 (b) (iii)				Q7 (b) (iii)	Q8 (a) & (b)	2.8
Ecology Experiments (combined)		Q 10 (c)		Q7 (a) & (b)	Q10 (b) (i)			Q7 (b)					Q7 (b)		Q9 (a) & (b)		5.2
Investigate the effect of heat denaturation on the rate of catalase activity								Q8 (b)					Q9 (a) & (b)	Q7 (a) & (b)			3
The Scientific Method	Q. 2	Q2	Q7 (a)	Q9 (a)	Q7 (a)	Q9 (a) & (b)	Q9 (a)	Q9 (a)	Q7 (a)	Q7 (a) & (b)	Q8 (a)		Q3			Q2	7.4
Prepare and examine animal & plant cell using the light microscope		Q 7 (b)(i)			Q7 (b) (iii)		Q8 (b)	Q9 (b) (iii)			Q9 (b) (i)				Q8 (b)		2.8
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	Q. 9 (b)						Q9 (b)		Q7 (b) (i)		Q7 (a) & (b)						2.4
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	Q. 7 (b)				Q7 (b) (iv)							Q9 (a) & (b)				Q7 (a) & (b)	2.4
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)		Q 9		Q9 (b) (ii)						Q8 (b) (iv)		Q7 (a) & (b)			Q14 (c) (iv)		2.6
Conduct any activity to demonstrate osmosis		Q 7 (b)(iv)		Q9 (b) (iii)				Q9 (b) (ii)	Q7 (b) (vi)								0.8
To test for starch, fat, reducing sugars, and protein		Q 7 (a)	Q7 (b) (iv)		Q7 (b) (i)						Q9 (b) (v)				Q7 (a)		1
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	Q. 8 (b)				Q9 (a) & (b)				Q7 (b) (iii)						Q7 (b) (ii)		1.6
Prepare and show the production of alcohol from yeast		Q 8	Q7 (b) (ii)														1.2

**KEY :**

Long Question = 1

Short Question = 0.2

