

BTEC Level 1 Introductory Diploma in Applied Science

Entry Requirements

No formal qualifications are needed. Entry will be by an initial assessment and a supporting reference.

Course Description

Pearson BTEC Level 1 qualification is a 1 year course, designed to enhance learners' work and life skills in science vocational contexts. They are appropriate for a diverse range of learners including 14-19 year old learners.

Course Content

A range of units are studied (see below) to enable entry into a BTEC Level 2 programme. The course is assessed through assignments - based on personal research and the results of practical investigations.

Progression

The intended destination for learners successfully achieving these qualifications include Level 2 diplomas, apprenticeships, supported employment and independent living courses.



Units studied - Learners must complete all core units and six sector units.

Unit Type	Unit Number	Unit Title	Assessment
Mandatory	1	Being Organised	Internal
Mandatory	2	Developing a Personal Progression Plan	Internal
Mandatory	3	Working with Others	Internal
Mandatory	4	Researching a Topic	Internal
Optional (Any 6 units)	5	Testing the Properties of Products	Internal
Optional (Any 6 units)	6	Carrying Out a Scientific Experiment	Internal
Optional (Any 6 units)	7	Investigating Variations in Plants and Animals	Internal
Optional (Any 6 units)	8	Measuring Waves Used in Technology	Internal
Optional (Any 6 units)	9	Practical Actions to Protect the Environment	Internal

Unit Type	Unit Number	Unit Title	Assessment
Optional (Any 6 units)	10	Making a Chemical Product	Internal
Optional (Any 6 units)	11	Testing the Properties of Products	Internal
Optional (Any 6 units)	12	Investigating Crime Scene Evidence	Internal

All assessments are graded either as Pass, Merit or Distinction, which will lead to an overall qualification grade.

Please visit this website for further information on each unit and calculation of overall grade.

https://qualifications.pearson.com/content/dam/pdf/btec-entry-level-and-level-1-introductory/applied-Science/2016/specification-and-sample-assessment/BTEC_Level_1_Intro_Cert_in_Applied_Science_Spec.pdf

Core Units

The core units will focus on key transferable skills such as research and planning, time management, working with others.

These units will enable you to develop and enhance a variety of skills including communication, problem solving, self-management and development and working with others.



Interactive Activity

Do you have an idea about what makes a successful team?



Watch the following video clip and answer the questions below.

<https://www.youtube.com/watch?v=c9PuB1mzR00>

1. What was the task given by Sir Alan Sugar?
2. How well do you think the teams prepared for the task?
3. What skills did you see on display in the Impact Team?
4. Why do you think the winning team were successful?
5. What would you do differently if you were on First Forty team?
6. Who do you think will be evicted from the show?
7. Who would you employ if you were in charge?

Applied Science Units

The Applied Science units will offer a broad introduction to the skills and knowledge within science - involving both theoretical and practical delivery of the main aspects of science.

For Applied Science, the units cover topics such as investigating crime scene evidence, measuring waves used in technology and investigating and variations in plants and animals.



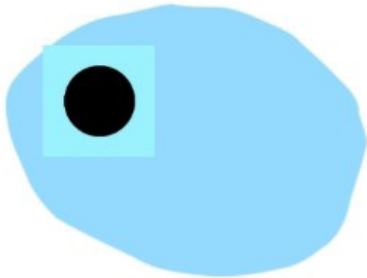
Plant and animal cells.

Name.....

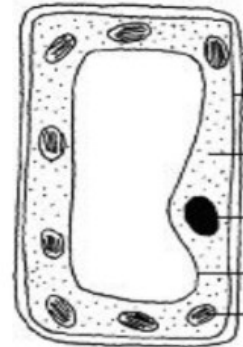
Class.....

date.....

1 a Draw lines from the words in the box to the correct part of each cell. The words can be used more than once or not all.



Cell wall
Cell surface membrane
Chloroplasts
Cytoplasm
vacuole



This is cell.

This is cell.

B In the blank space in the sentence underneath each diagram, fill in the words 'a plant' or 'an animal'.

2 Draw lines from the parts of cells to their functions. The first one has been done for you.

Part of cell

Cell surface membrane
Chloroplasts
Nucleus
Cell wall
Cytoplasm
Vacuole

Function

Tells the cell what to do
Keeps the cell together and controls what goes into and out of the cell
A jelly- like substance in which many of the cell's activities happen
A storage space filled with sap
Green discs that allow the plant to make food by photosynthesis
Supports the cell

To help you prepare for the course in September 2020, please try the activities below:

Visit BBC bitesize and do daily lessons in English, Science and Maths for KS3.

<https://www.bbc.co.uk/bitesize>

<https://www.bbc.co.uk/bitesize/topics/zvgg4qt/articles/zq6nw6f>

<https://www.bbc.co.uk/bitesize/subjects/zjd8jty>

Useful YouTube Clips to watch

<https://www.youtube.com/watch?v=W6wj9pm2bsc>

<https://www.youtube.com/watch?v=B3a1HWcCECA>

<https://www.youtube.com/watch?v=5flaUK1fQwA>

<https://www.youtube.com/watch?v=3bnMBh00LnU>

Have a go!

- 1. Research the different careers involving science.**
- 2. Pick one career and design an information poster on what your chosen career involves.**



Key scientific terminology

Gravity

Organism

Plant-cell

Microscope

Nucleus

Magnetism

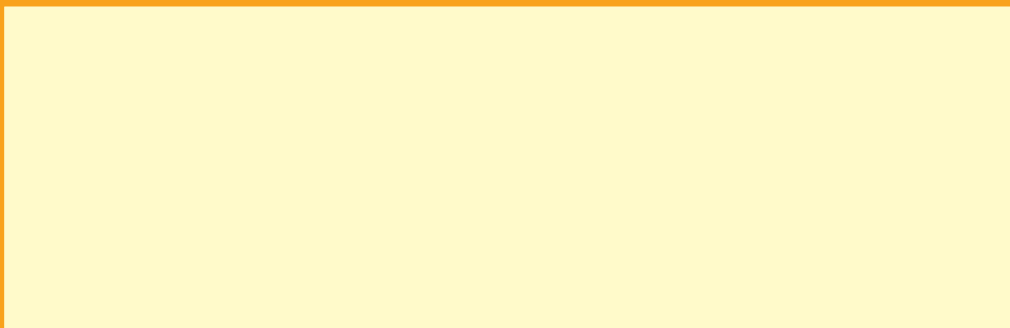
Experiment

Hypothesis

Controls

Independent variable Dependent variable

Can you think of anymore?



BMet