Y11 F&N NEA1 (16 lessons)

KEYWORDS- Investigate the **functional** and **chemical** properties of......

Choose a task from the list provided by AQA

101

what the NEA1 is about

how to begin analysing the task



LO.2.

Analyse the task and

plan your research

- how to create an opening paragraph
- how to start initial research

LO.3/4. why to investigate the

- working
- functional
- chemical characteristics of ingredients

Carry out research of the working characteristics, functions and chemical properties of the ingredients to investigate

Prior Learning: Working properties/Function of ingredients in bread.

Strong plain flour This has high gluten content. Gluten forms the structure of the bread. Produces carbon dioxide gas known as fermentation.

Salt Slengthen gluten and adds flavour

Binds dry ingredients together, works with gluten to stretch the dough Liquid (water/milk) should be lukewarm to help the yeast to ferment.

Research: Flour is used in the making of bread, the protein in the flour, is called gluten. The gluten is used Flour is used in the major of read, the protein in tree inour, is called guiter. In egiglet in seal, because of its ability to stretch, be a disting, when kneaded; producing the structure of the seal. Gluten also has the ability to hold pockets of gas produced by the yeast. Gluten aids in setting the framework of the bread by coagulating when heated and therefore produces the structure. The gluten is developed and strengthened through the kneading proces

during bread making.

Wheat flour contains two proteins – glutenin and gliadin – which connect with each other and water to form gluten. Stirring and kneading increases gluten formation. The gluten catches the carbor dioxide produced by the yeast and stretches, resulting in millions of

ifferent types of flours can be used when making of bread, these flours include; plain flour, strong plain flour, wholemeal flour and granary flour. Each of those flours has a erent gluten content which causes both physical and chemical changes to the bread.

Write a summary of what you have

found out from your research

The table which I sourced from a website shows the % of protein in flour. Plain flour has some gluen content. Strong plain flour has the highest glutien content, which provides elasticity to the bread dough producing the unique strong stretch when kneading.

LO.6/7 + 9/10

- how to plan for first experiment
- how to conduct experiments based upon your research

Write a prediction or hypothesis for your practical investigations. The hypothesis should be a statement that may be proved or disproved

Clear hypothesis-

LO.8 + 11

- how to use a range of testing methods and
- how to record the findings from your experiment

Use a range of testing methods to record

and present the results of the testing. This

labelled diagrams, tables, charts, sensory

could include: annotated photographs,

Establish a clear aim for each investigation

testing methods, etc.

Plan the practical investigations and experimental work based on the research findings

LO.12/13.

- how to analyse findings
- how to interpret findings

how to understand what you discovered from your experiments.

how to evaluate your hypothesis

Evaluate the hypothesis/ prediction

LO.14.

Analyse, interpret and evaluate the results of the investigation

Explain how the results can be used when preparing and cooking food

How the task will be assessed

Breakdown of assessment	
Choose and analyse task	
Section A: Research	6 marks
Section B: Investigation	15 marks
Section C: Analysis and evaluation	9 marks
Total	30 marks

KEY SKILLS & PROCESSES

- Planning a research intent and hypothesis 1.
- 2. Conducting research through experimentation
- 3 Understanding results and possible applications

LO.15/16.

- what your final results were.
- how these results can be used when preparing and cooking food.

LO.5.

- how to write a prediction or hypothesis.
- if you intend to prove or disprove your hypothesis.

GCSE **PROGRESSION**

A-level, T-levels courses or **Apprenticeships in** catering, food preparation etc. Also workplace courses such as Level 3 VTQs where students work and study at the same time.