Previous Knowledge

• Antioxidants are molecules which will prevent oxidation reactions taking place.
• Ion-electron equations can be written for the oxidation of many antioxidants.

Starter Questions

• What is an antioxidant?
• What antioxidants are in tea?
• What is an oscillating reaction?
• What conditions might affect the levels of antioxidants in tea?

Do different types of Tea contain different levels of anti-oxidants?

What to do

• Read your candidate guide and success criteria.
• Complete the starter questions.
• Write three questions relating to your focus question that you plan to investigate.
• Complete a literature research to find at least two sources of information that can be processed at a later date.
• Plan how to adapt the experimental procedures to take into account your focus question.
• Allocate tasks to the group.
• Carry out your practical investigation.
• Record your results.
• Present your results.
• Complete your evaluation sheet.

Resources

• Candidate guide
• Success Criteria
• Class notes
• Experiment instructions
• Textbooks
• Internet
• Evaluation sheets
Previous Knowledge
• Antioxidants are molecules which will prevent oxidation reactions taking place.
• Ion-electron equations can be written for the oxidation of many antioxidants.

Starter Questions
• What is an antioxidant?
• What antioxidants are in tea?
• What is an oscillating reaction?
• What conditions might affect the levels of antioxidants in tea?

Do different types of black tea contain different levels of anti-oxidants?

Resources
• Candidate guide
• Success Criteria
• Class notes
• Experiment instructions
• Textbooks
• Internet
• Evaluation sheets

What to do
• Read your candidate guide and success criteria.
• Complete the starter questions.
• Write three questions relating to your focus question that you plan to investigate.
• Complete a literature research to find at least two sources of information that can be processed at a later date.
• Plan how to adapt the experimental procedures to take into account your focus question.
• Allocate tasks to the group.
• Carry out your practical investigation.
• Record your results.
• Present your results.
• Complete your evaluation sheet.
Do different brands of Tea contain different levels of anti-oxidants?

Tea

Previous Knowledge
• Antioxidants are molecules which will prevent oxidation reactions taking place.
• Ion-electron equations can be written for the oxidation of many antioxidants.

Starter Questions
• What is an antioxidant?
• What antioxidants are in tea?
• What is an oscillating reaction?
• What conditions might affect the levels of antioxidants in tea?

Resources
• Candidate guide
• Success Criteria
• Class notes
• Experiment instructions
• Textbooks
• Internet
• Evaluation sheets

What to do
• Read your candidate guide and success criteria.
• Complete the starter questions.
• Write three questions relating to your focus question that you plan to investigate.
• Complete a literature research to find at least two sources of information that can be processed at a later date.
• Plan how to adapt the experimental procedures to take into account your focus question.
• Allocate tasks to the group.
• Carry out your practical investigation.
• Record your results.
• Present your results.
• Complete your evaluation sheet.
Previous Knowledge

- Antioxidants are molecules which will prevent oxidation reactions taking place.
- Ion-electron equations can be written for the oxidation of many antioxidants.

Starter Questions

- What is an antioxidant?
- What antioxidants are in tea?
- What is an oscillating reaction?
- What conditions might affect the levels of antioxidants in tea?

Resources

- Candidate guide
- Success Criteria
- Class notes
- Experiment instructions
- Textbooks
- Internet
- Evaluation sheets

What to do

- Read your candidate guide and success criteria.
- Complete the starter questions.
- Write three questions relating to your focus question that you plan to investigate.
- Complete a literature research to find at least two sources of information that can be processed at a later date.
- Plan how to adapt the experimental procedures to take into account your focus question.
- Allocate tasks to the group.
- Carry out your practical investigation.
- Record your results.
- Present your results.
- Complete your evaluation sheet.

Does the temperature tea is brewed affect the levels of antioxidants?
Tea

Does the time tea is brewed affect the levels of antioxidants?

Previous Knowledge
- Antioxidants are molecules which will prevent oxidation reactions taking place.
- Ion-electron equations can be written for the oxidation of many antioxidants.

Starter Questions
- What is an antioxidant?
- What antioxidants are in tea?
- What is an oscillating reaction?
- What conditions might affect the levels of antioxidants in tea?

Resources
- Candidate guide
- Success Criteria
- Class notes
- Experiment instructions
- Textbooks
- Internet
- Evaluation sheets

What to do
- Read your candidate guide and success criteria.
- Complete the starter questions.
- Write three questions relating to your focus question that you plan to investigate.
- Complete a literature research to find at least two sources of information that can be processed at a later date.
- Plan how to adapt the experimental procedures to take into account your focus question.
- Allocate tasks to the group.
- Carry out your practical investigation.
- Record your results.
- Present your results.
- Complete your evaluation sheet.