

Junior CSI After School Club - Key stage 1 and Key stage 2

Run over one half term a series of weekly one hour after school workshop targeting science in a fun and inspiring way. The sessions are designed by crime investigation and forensic experts.

Week one Introduction to forensic science, different branches. roles and careers.

Health and safety, PPE equipment and evidence preservation and integrity.

Visit to a mock crime scene to gather evidence including, fingerprints, footwear marks, hair and fibres, soil, rocks.

Links to the curriculum

- Working scientifically
 - observing closely, using simple equipment
 - identifying and classifying
 - using their observations and ideas to suggest answers to questions
 - gathering and recording data to help in answering questions
- Jobs and careers
- Literacy
- Numeracy
- Health and safety and safe working

Week two Fingerprint

Developing and lifting fingerprints using different methods for different surfaces including porous and non porous. Rolling and characterising fingerprints. Comparing fingerprint patterns to that of suspects. Biology behind fingerprints.

Introduction to alibi's and eliminating a suspect through comparing statements of witnesses. On completion of the session students will take home copies of their own fingerprints stimulating discussion with parents/carers.

Curriculum links:

- Working scientifically
 - asking simple questions and recognising that they can be answered in different ways
 - observing closely, using simple equipment
 - performing simple tests
 - identifying and classifying
 - using their observations and ideas to suggest answers to questions
 - gathering and recording data to help in answering questions

- Literacy
- Numeracy
- Health and safety and safe working
- Magnets
 - observe how magnets attract or repel each other and attract some materials and not others

Week 3 Shoeprint and Tyre tracks

Casting, comparing and matching footwear marks and tyre tracks using scientific and technical processes. On completion of this session students will take home tyre track casts stimulating discussion with parents/carers.

Curriculum links:

- Working scientifically
 - asking simple questions and recognising that they can be answered in different ways
 - observing closely, using simple equipment
 - performing simple tests
 - identifying and classifying
 - using their observations and ideas to suggest answers to questions
 - gathering and recording data to help in answering questions
- Materials
 - Differences in materials liquid, solid, cold, hot
 - Changes in materials

Week 4 Hair and Fibres

Introduction to microscopy; using digital microscopes students explore the morphology of hair, difference between animal and human, ethnic backgrounds and the origin and differences of fibres to eliminate a further suspect.

Curriculum links:

- Working scientifically
 - asking simple questions and recognising that they can be answered in different ways
 - observing closely, using simple equipment
 - performing simple tests
 - identifying and classifying
 - using their observations and ideas to suggest answers to questions
 - gathering and recording data to help in answering questions

- Materials
 - identify and compare everyday materials.

Week 5 Witnesses and Compufit facial reconstruction and alibis

Using specialist software students use their skills to reconstruct a facial composition of the suspect.

Curriculum links:

- IT Skills
- Listening skills
- Literacy
- Descriptive and observational skills
- Working scientifically

Week 6 Rocks and Soil

Using microscopes to compare samples of soil found at the crime scene and classify different rock types using observations and scientific processes.

Curriculum links:

- Working scientifically
 - asking simple questions and recognising that they can be answered in different ways
 - observing closely, using simple equipment
 - performing simple tests
 - identifying and classifying
 - using their observations and ideas to suggest answers to questions
 - gathering and recording data to help in answering questions
- Rocks and Soils
 - compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
 - recognise that soils are made from rocks and organic matter

On completion of week 6 students will receive a certificate of attendance and be able to take home their crime suits.

Cost: The cost is £5 per child per session payable by carers or £90 plus VAT per session paid by school. Sessions are limited to 25 children maximum. We are happy to discuss administration and the best way forward with yourselves.