Elizabethtown Area School District
Scope & Sequence - Quick Reference

Department: Science

Course: Forensic Chemistry

Grade Level(s): 11 & 12

Unit Title	General Topic(s)	Pacing
1. Evidence	- Sam Science - interpreting evidence - inferring - Crime Scene Basics - Eyewitness Basics - Physical Evidence	9 blocks
2. Microscope basics	Taking pictures 5 different ways using different microscopes and Elmo	2 blocks
3. Fingerprints	- Basics - Graphite prints - Inked prints - Dusted prints - Chemically lifted prints	6 - 7- blocks
4. Hair	- Morphology - Human v animal - Detailed pictures - Hair cast - Human head hair - Human body hair - Animal hair	3 blocks
5. Fiber	Quick Fiber melting burning lab	1 block

6. Baseball card caper or Shameful Shahtoosh shawl	● Crime scene case involving 2 fingerprints, hair, and fiber evidence. Interview skills are also used.	5-7 blocks
7. Blood, blood everywhere, and a drop to …	● Blood basics ● Is it blood? (H_2O_2) ● Blood typing ● Punnett squares ● Blood spatter (optional)	3-4 blocks 1-1.5 blocks for spatter
8. Questioned Documents	● Handwriting characteristics - generalities ● Identifying someone's handwriting - quick Harley dognap case ● Paper analysis ● Ink analysis	4-5 blocks
9. White powder analysis	● Distinguish between 13 different known white solids. ● Identify an unknown white solid	3 blocks
10. Hanky Panky in the Laundry	● Crime Scene Case involving a fingerprint, three different red substances, hair, handwriting analysis, paper analysis, and ink analysis.	7 blocks
11. Odontology and Cheiloscopy	● Bitemarks and lip prints analysis - making bitemarks and	1 -2 blocks
12. Blood and Urine analysis - toxicology	● Simulated blood and urine are analyzed for high levels of certain chemicals associated with various health conditions,e.g. Diabetes, pregnancy, dehydration, etc.	4 - 5 blocks

	● Unknown blood and urine sample is analyzed to determine health condition	
13. Anthropology	● Anthropology basics ● Station rotation using anthropological evidence to solve various scenarios. ● Measuring bones to determine height.	2 - 3 blocks
14. E-town has a drug problem?	● Crime scene case involving a fingerprint, lip print, white powder, hair, ink analysis, handwriting analysis, paper analysis, blood present?, blood type, toxicology of blood and urine.	10 blocks
15. Masonic Home Mishap (If time)	● Crime scene case involving a fingerprint, lip print on note, white powder, hair, ink analysis, handwriting analysis, paper analysis, blood present?, blood type, toxicology of blood and urine and anthropology	10 blocks