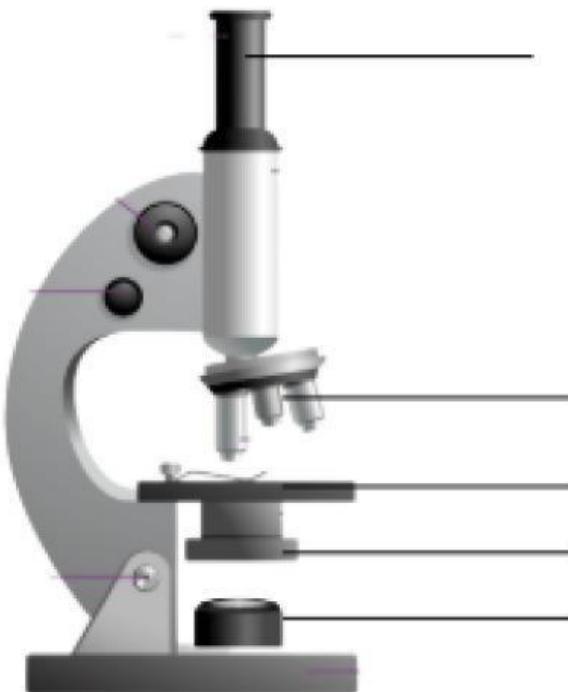


SCIENCE CLASS REVIEW / 8th grade

1. Select the right name that corresponds to the part of the light microscope.



2. Complete the next comparison chart about light vs electron microscopes.

Characteristic	Light microscope	Electron microscope
Uses		
Cost		
Size		
Magnification		
Resolution		
Cellular structures		
Type of samples		

3. On the line, select the right name of the pattern for each fingerprint. Then, connect each fingerprint pattern to the real ones.

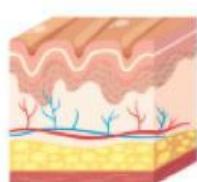


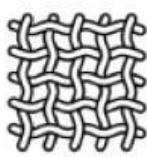


4. Select the names of the methods detectives use to watch fingerprints.

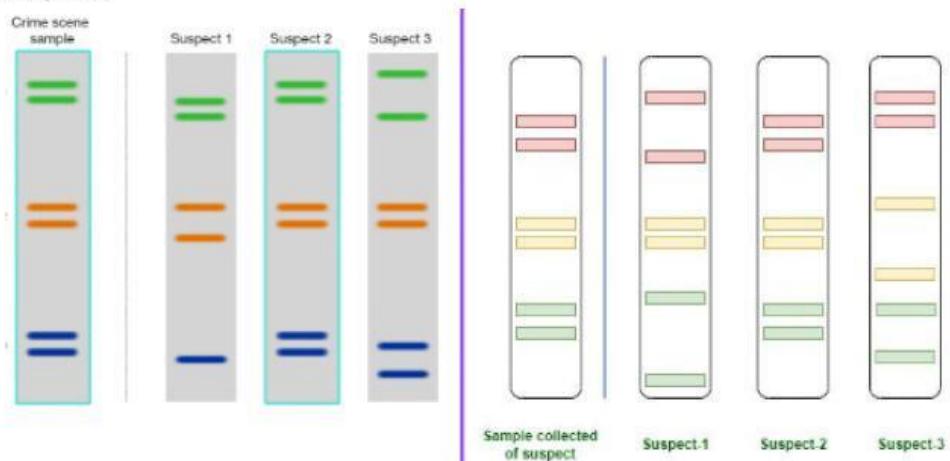


5. Select the right name for each type of forensic evidence.

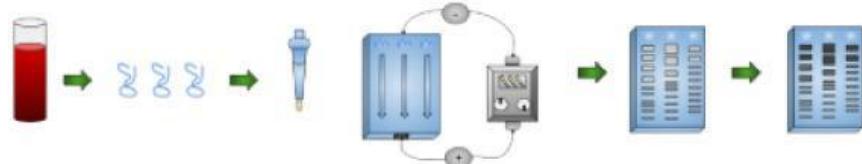




6. Select which suspect is the guilty one according to the DNA fingerprinting analysis.

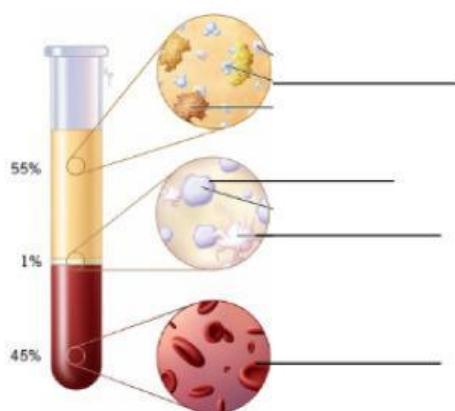


7. Add the number according to the sequence for DNA fingerprinting analysis.



- The fragments move different distances, depending on their size.
- DNA is extracted from cells.
- An electric current is passed through the gel. This makes the fragments move.
- Enzymes are used to cut the DNA into short fragments.
- Samples of the DNA are inserted into a well (a small dent) in a gel.
- The pattern produced is the person's DNA fingerprint. It looks a bit like a barcode.

8. Next to the image, add the names of the blood components. Then match with a line to their function.



Match with their functions.

- They protect against diseases (produce antibodies).
- They protect against diseases (produce antibodies).
- They transport substances around your body.
- They help to clot.

9. Select the characteristics forensic scientists use to determine the time of death.

Body temperature
(-1.5°C per hour)

Insects as blowflies,
fly larvae,
cockroaches, mites.

Rigor mortis
(muscle stiffen)

It continues
breathing.

10. Complete the following text.

The role of a pathologist in forensic science is to _____ the cause of _____ after carrying out a _____ examination.

A pathologist can determine the _____ of _____ and _____ of living people by carrying out test of body samples like: _____, _____, and _____.