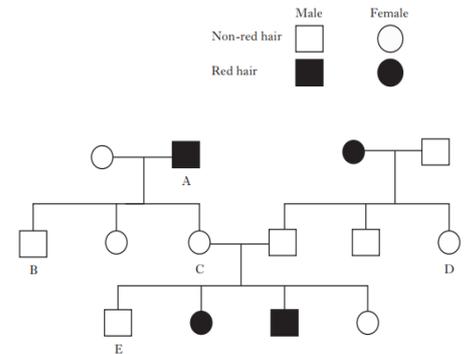




Before you answer these questions, look over your summary sheets and the success criteria from this topic.

#### 1. IDENTIFYING AND CLASSIFYING LIFE

- What are the seven signs of life?
- What does the word 'nutrition' mean?
- What does the word 'characteristic' mean?
- What are the five kingdoms of life?
- Look at the key on the right. Use the key to determine if each individual is male/female and has red hair or non-red hair;
  - A
  - C
  - D

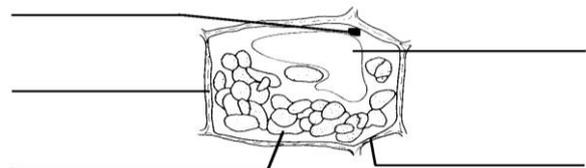
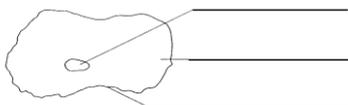


#### 2. USING A MICROSCOPE

- What is a microscope used for?
- What is the name of the part of the microscope you look through?
- What is the name of the part of the microscope the slide is placed on?
- What is the purpose of the lens?
- Why does a microscope need a light source?
- Write a simple guide for somebody using a microscope for the first time.
- Why are stains used when making a microscope slide?

#### 3. PARTS OF A CELL

- Copy the drawing of each cell and label each part.



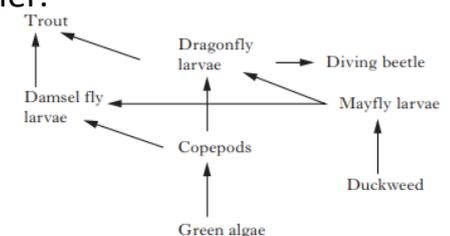
- What is the basic building block of life?
- What structures are found in both plant and animal cells?
- What structures are found in plant cells only?
- Explain the role of each part of the cell (e.g. Nucleus → Controls the cell)
- Why do we use microscopes to view cells?
- What is an organelle?

#### 4. THE ENVIRONMENT

- Describe the environment in the North Pole.
- What does 'biodiversity' mean?
- What is the scientific term for an organism's home?
- What is a biotic factor?
- Give three examples of biotic factors.
- What is an abiotic factor?
- Give three examples of abiotic factors.
- What sampling technique would you use to record the number of
  - Daisies in a field
  - Midges in the air
  - Insects on a forest floor
- How can you make sampling more reliable?

#### 5. FOOD CHAINS AND WEBS

- Why do animals eat other animals and plants?
- What do the arrows in a food chain represent?
- Explain the difference between a producer and consumer.
- Give an example of a food chain with three organisms.
- Name the producer in the food chain in question 3.
- Define herbivore, omnivore and carnivore.
- Give an example of a predator and prey organism.
- Look at the food web on the left. Name two predators of the mayfly larvae.



#### 6. ENDANGERED SPECIES & SCIENCE SKILLS

- What does the word extinct mean?
- What does the word endangered mean?
- Give three examples of how humans have caused animals to become endangered.

Read the passage:

*The Scottish wildcat (*Felis sylvestris grampia*) is under threat of extinction with only around 400 pure-bred cats in the wild left in Scotland. Wildcats live in conifer forests, dense woodland or rocky areas. They are carnivores that feed on herbivores such as rabbits, mice and voles. Although their young are eaten by pine martens and foxes, the main threat to their existence is interbreeding with the domestic cat.*

- What is the habitat of the wildcat?
- Which organism is the carnivore mentioned in the passage?
- Draw out the food chain for the wildcat.
- Suggest one way humans can try to increase the number of wildcats living in Scotland.