

# Knowledge Organiser Year 6 (Autumn 2022)

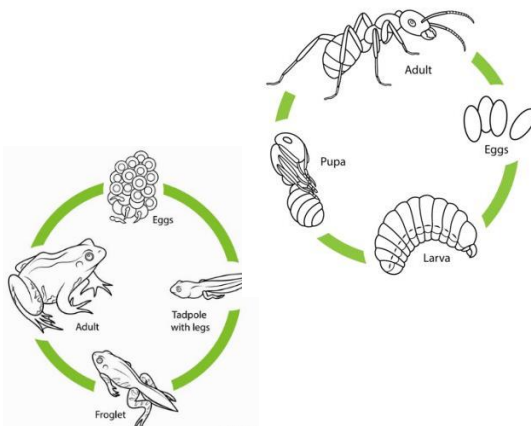
We learn science because it helps us to understand the world around us. We learn to ask and answer our own and others' questions, how to work practically to test ideas fairly, to record observations and to tell others what we have found out.

## Evolution and inheritance

### Fossils



Scientists use fossils to discover what life used to look like millions of years ago. Fossils like this *Archaeopteryx* helped scientists to discover the link between dinosaurs and birds.



Both amphibians and insects undergo metamorphosis but for different reasons. Amphibians change their habitat when they are mature, going from living in water to living on land meaning their bodies need to adapt to fit this. Insects have an exoskeleton that doesn't grow with their bodies so they must shed this and grow a new one before they can grow larger.

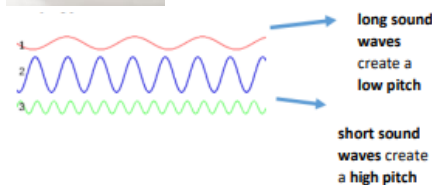
### Diet and exercise

Having regular exercise is very important for your body. A sedentary lifestyle (spending a lot of time sitting or lying still) can make your body more at risk of illnesses and can make your muscles weaker. Children should aim to be active for at least an hour every day. This could be through playing outside, doing sports or another activity.

### Sound

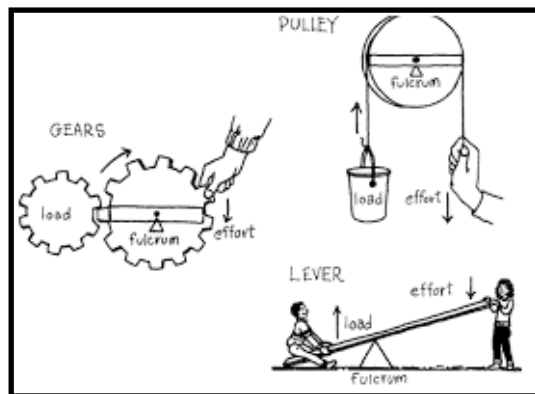


The roar of a lion is low pitched.



The squeak of a mouse is high pitched.

### Forces



### Animals including humans

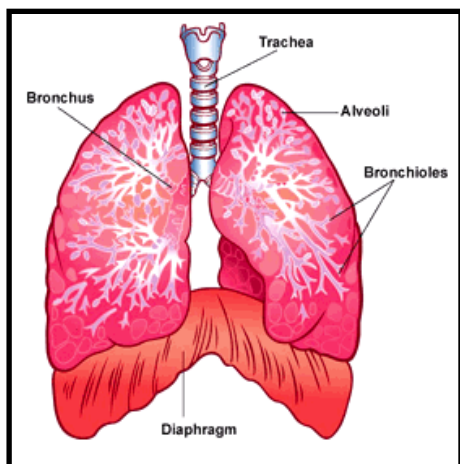
**Drugs** are chemicals that can have a positive or a negative impact on your body. Some drugs have medical benefits such as helping cure illnesses, reducing pain and fighting infections. Other drugs have effects such as making you feel differently; these are known as recreational drugs. Alcohol (in some drinks) and nicotine (in cigarettes) are examples of recreational drugs. Many recreational drugs are extremely addictive and are very bad for your body so are illegal.

#### Drugs with medical benefits

- Paracetamol
- Ibuprofen
- Aspirin
- Salbutamol (found in inhalers)
- Penicillin (an antibiotic)
- Chemotherapy (fighting cancer)

#### Drugs which are illegal often have lots of different names including:

- Cannabis
  - Cocaine
  - Ecstasy
  - Heroin
- (These could be very addictive or harmful).**



The circulatory system is how the body transports oxygen (from the air) and nutrients (from the food and drink we consume) around our body. It is made up of the heart and lungs along with blood vessels.

