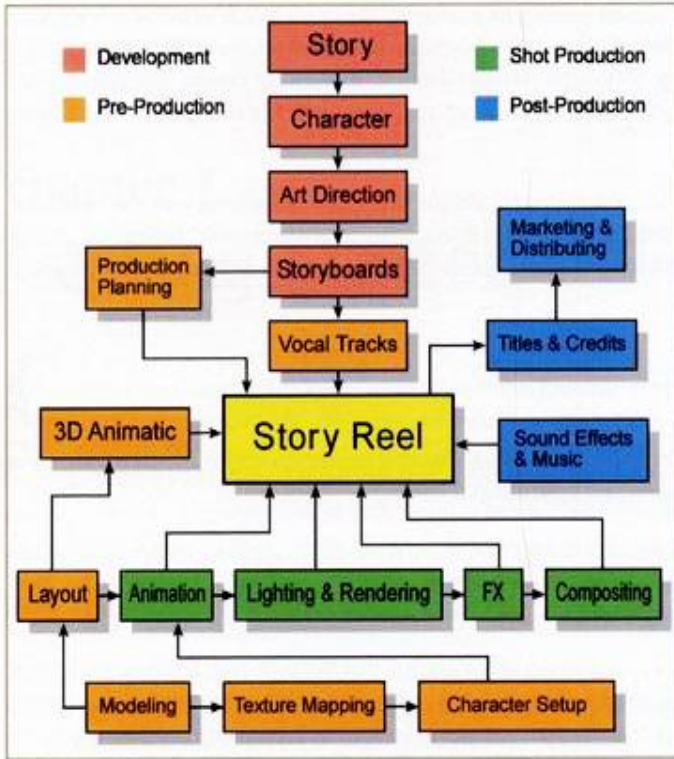


Y5 SP2 Knowledge Organiser

Process of Animation



Different types of bridges and their purpose

Beam Bridge

This is the oldest and simplest of the four types of bridges. Originally people used a long piece of stone or tree trunk to cross small streams. Its possible that bridges made of stone slabs found in south west England are the oldest in the world. We don't know exactly when they were built but they are still standing.

As weight is placed on the beam the compression force shortens the upper part. This tension causes the lower part to lengthen. The beam bends and if the pressure is too great it will break.

Arch Bridges

This type of bridge was invented by the Romans. They realised that a wedge shaped stone called *voussoirs* could carry heavy loads if built in the shape of an arch.

A wooden framework has to be built to support the stones while building the arch bridge. After putting the locking stone in place the wooden frame is removed and the arch should stand by itself.

Hanging Bridges

A hanging bridge can stretch over long distances without much material being needed to build it. Perhaps you have seen a simple hanging bridge in a film or adventure story about the jungle on the television.

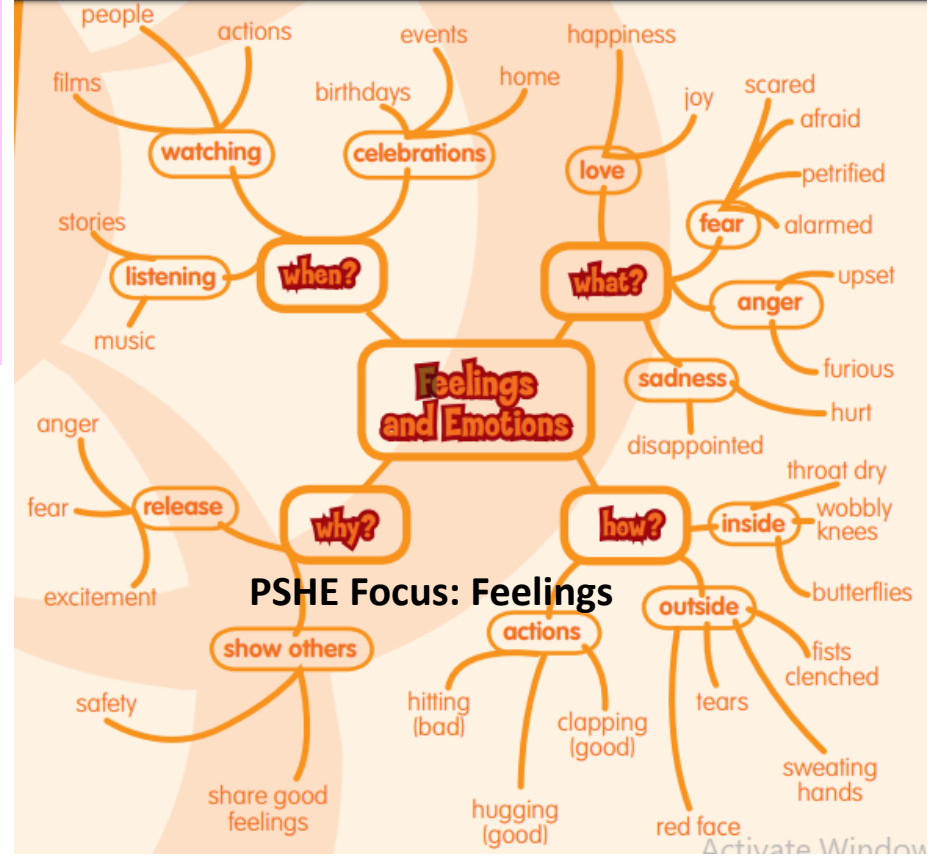
Materials- climbing plants and bamboo

Cantilever Bridges

Cantilever bridges are made from beams supported on one side only. A cantilever bridge is a form of beam bridge.

Two cantilevers with a short beam between them are often used.

Rank Riley's emotions in order of importance. Use examples to support your reasoning.



Disgust Disgust is highly opinionated, extremely honest and always has the best intentions.

Fear Fear's main job is to protect Riley and keep her safe.

Joy She is light-hearted, optimistic and determined to find the fun in every situation.

Sadness None of the other emotions really understand what Sadness's role is.

Anger Anger feels very passionately about making sure things are fair for Riley.

