Autumn

Key Idea

Knowledge

Focused skill

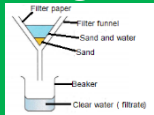**States of matter**
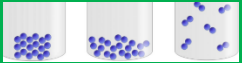
Consolidate → Explore changing states of matter.

Stretch → Explore particle theory.

Plan

To plan how to compare different liquids.
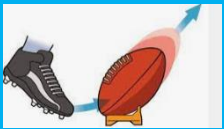

Separating Mixtures

Consolidate → Explore properties of materials and reversible changes.

Stretch → Explore separation techniques for a range of mixtures.

Do

To investigate how to separate different mixtures.

Forces

Consolidate → Explore levers and pulleys.

Stretch → Explore resultant forces.

Record and present

To record results from an air resistance investigation.

Earth's Resources

Consolidate → Explore Earths structure.

Stretch → Explore Earths resources.
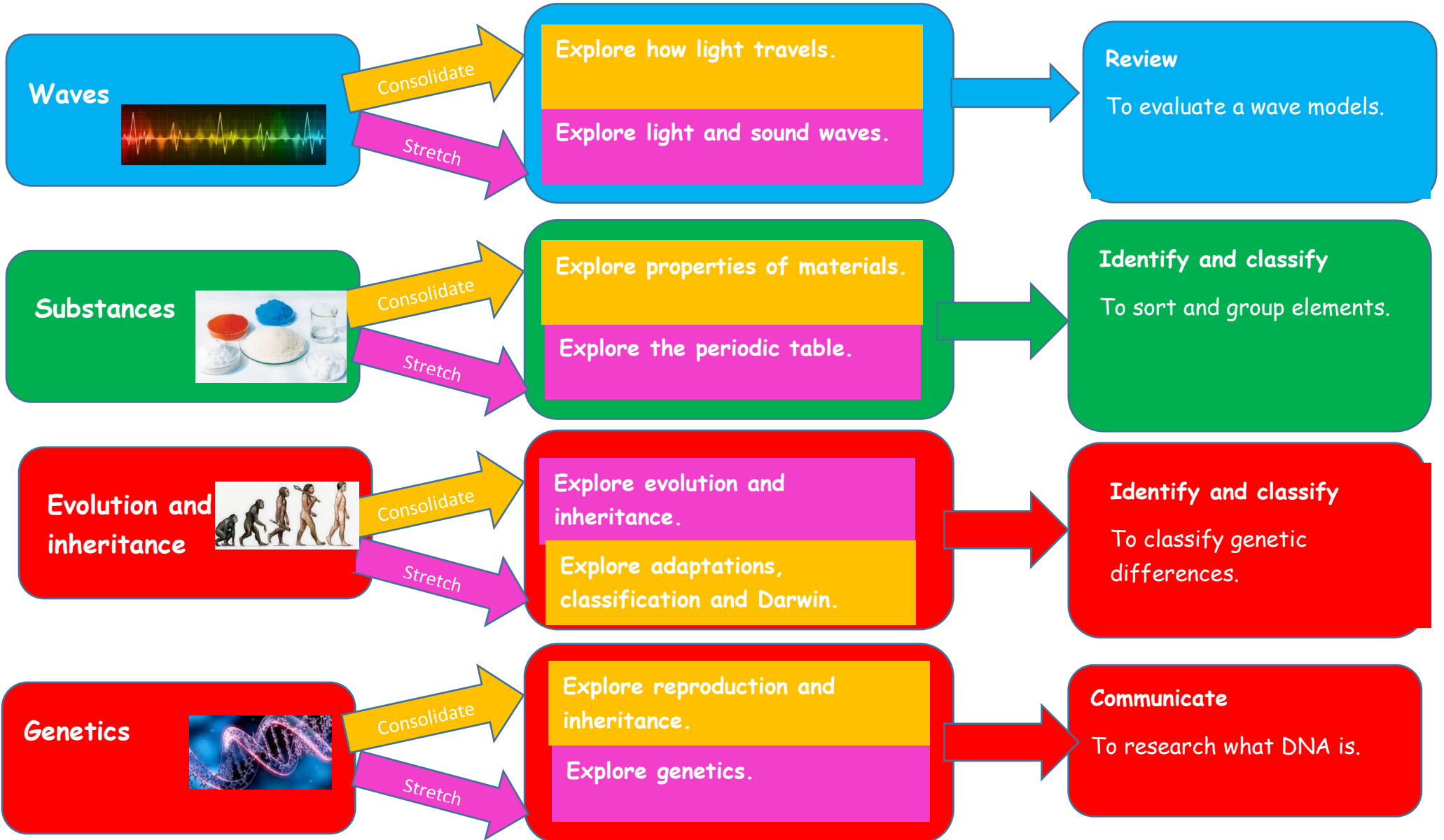
Communicate

To describe the rock cycle or to suggest how we can reduce wasting resources.
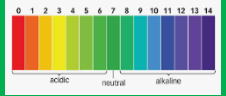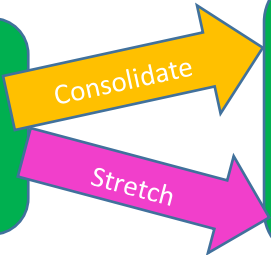
Spring

Key Idea

Knowledge

Focused skill

Waves

Consolidate → **Explore how light travels.**

Stretch → **Explore light and sound waves.**

Review

To evaluate a wave models.

Substances

Consolidate → **Explore properties of materials.**

Stretch → **Explore the periodic table.**

Identify and classify

To sort and group elements.

Evolution and inheritance

Consolidate → **Explore evolution and inheritance.**

Stretch → **Explore adaptations, classification and Darwin.**

Identify and classify

To classify genetic differences.

Genetics

Consolidate → **Explore reproduction and inheritance.**

Stretch → **Explore genetics.**

Communicate

To research what DNA is.

Summer

Key Idea		Knowledge	Focused skill

Acids and alkalis
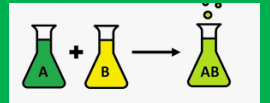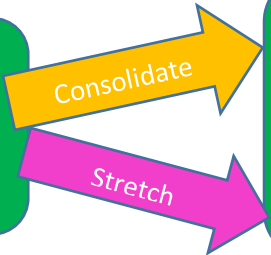
Consolidate → **Explore acids and alkalis**

Stretch → **Explore the pH scale and neutralisation.**

Plan

To plan an investigation into the acidity of drinks.

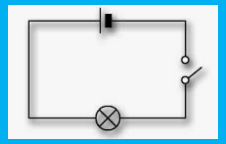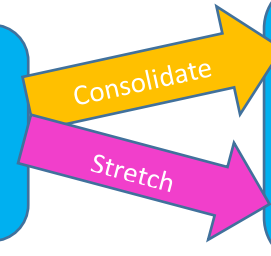---

Chemical reactions and metals

Consolidate → **Explore Irreversible changes**

Stretch → **Explore different chemical reactions.**

Do

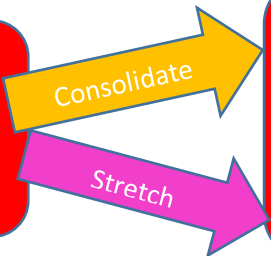To investigate burning or investigate exo and endothermic reactions.

Electricity

Consolidate → **Explore drawing and changing variations in circuits.**

Stretch → **Explore measuring in different types of circuits.**

Record

To record observations on variations on bulb brightness or from measuring current in a circuit.

Plants

Consolidate → **Explore plant reproduction.**

Stretch → **Explore photosynthesis.**

Review

To review factors affecting seed dispersal or photosynthesis.