

Animals Including Humans 1

1. Can I name my five senses?
2. Can I use my senses of taste and smell to help me group different foods?
3. Can I group objects according to how they feel?
4. Can I use my sense of hearing to help me compare and group sounds?
5. Can I help to plan a taste investigation?
6. Can I complete a taste investigation?

Vocabulary



sense



touch



sight



smell



taste



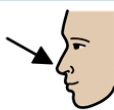
hearing



skin



eyes



nose



ear



tongue



observe



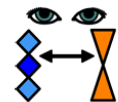
group



record



test

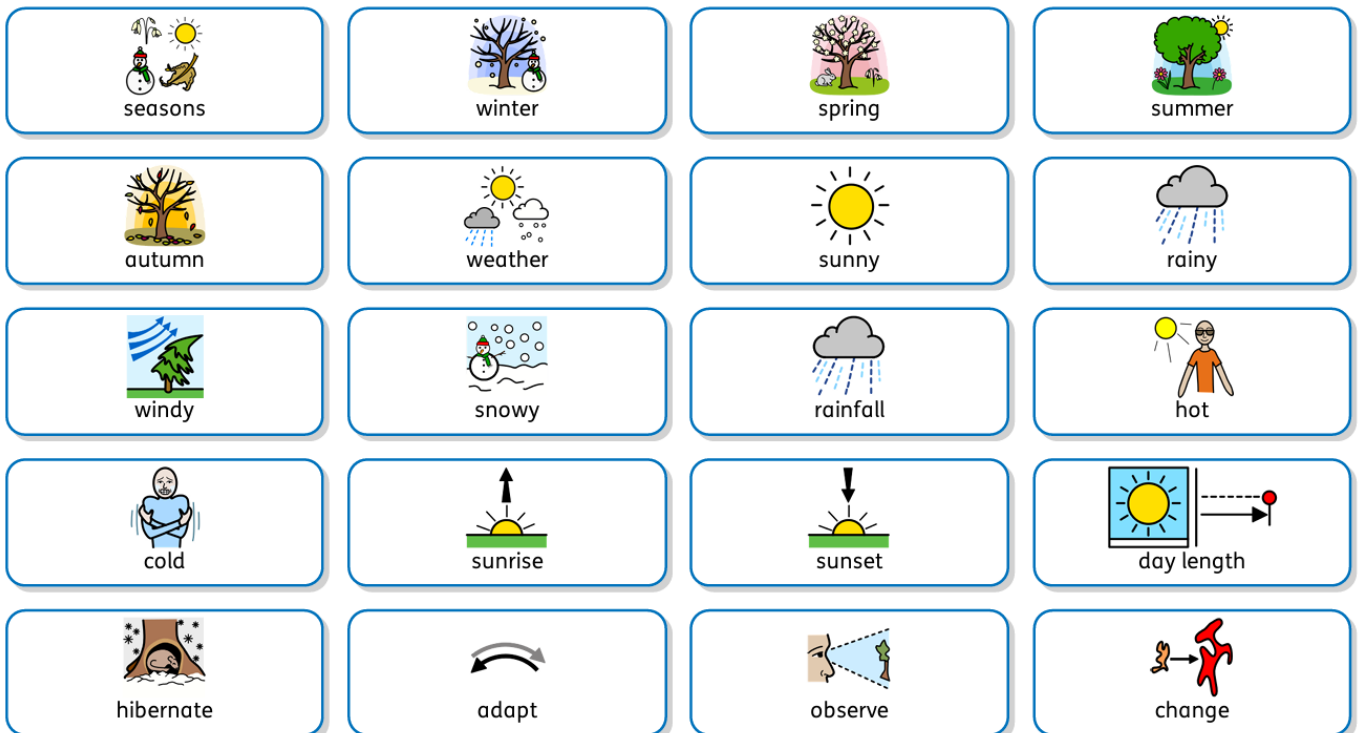


compare

Seasonal Change 1

1. Can I name some signs of autumn?
2. Can I observe the weather over time?
3. Can I observe changes to day length at different times of year?
4. Can I explain why people wear different clothes in different types of weather?
5. Can I say how some animals adapt in different seasons?
6. Can I name some signs of winter?

Vocabulary



Everyday Materials

1. Can I group objects based on their properties?
2. Can I group objects based on the material they are made from?
3. Can I say why the same type of object could be made from different materials?
4. Can I test to see which ball is the bounciest?
5. Can I explore the properties of different fabrics?

Vocabulary



Animals Including Humans 2

1. Can I identify and name some common mammals?
2. Can I identify and name some common birds?
3. Can I identify and name some common fish?
4. Can I identify and name some common reptiles and amphibians?
5. Can I say what some common animals eat?
6. Can I investigate patterns?

Vocabulary



Seasonal Change 2

1. Can I name some signs of spring?
2. Can I observe the weather over time?
3. Can I observe changes to day length at different times of year?
4. Can I explain why people wear different clothes in different types of weather?
5. Can I name some signs of summer?

Vocabulary



seasons



winter



spring



summer



autumn



sunny



rainy



windy



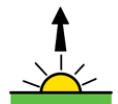
snowy



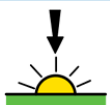
hot



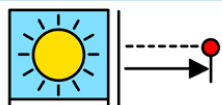
cold



sunrise



sunset



day length



observe



change

Plants

1. Can I name some different parts of a plant?
2. Can I name some of the trees in our local area?
3. Can I explain what deciduous and evergreen mean?
4. Can I name some of the plants in our local area?
5. Can I grow a plant from a seed?
6. Can I compare different plants?

Vocabulary



Animals Including Humans 1

1. Can I explain what animals need to survive?
2. Can I give some examples of what a baby needs?
3. Can I recognise food that is healthy?
4. Can I explain how exercise helps to keep me healthy?
5. Can I explain some ways that germs can spread?

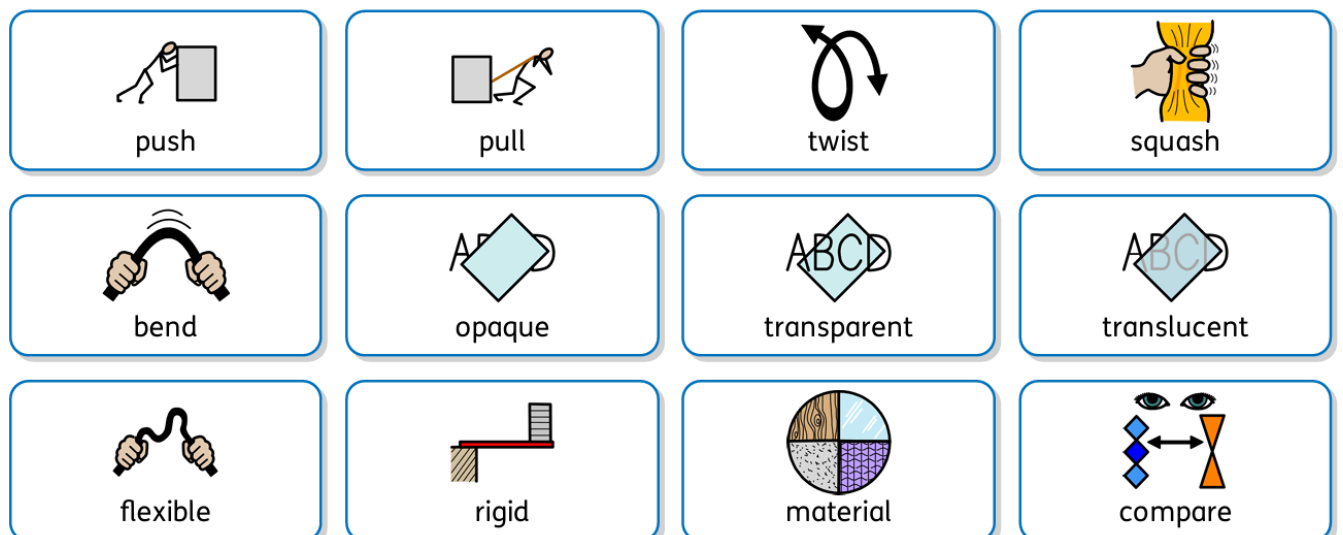
Vocabulary



Uses of Everyday Materials

1. Can I describe materials using scientific properties?
2. Can I change the shape of a material?
3. Can I say why the same object can be made from different materials?
4. Can I say why an object is made of certain materials?
5. Can I plan a comparative test about the properties of materials?
6. Can I carry out a comparative test about the properties of materials?

Vocabulary



Living Things and Their Habitats

1. Can I explain the difference between living, dead and never alive?
2. Can I group and classify living, dead and never alive objects around our school?
3. Can I explain what a habitat is?
4. Can I explain how a local habitat provides what living things need?
5. Can I give examples of local micro-habitats?
6. Can I identify and name animals in a local habitat?
7. Can I classify plants in a local habitat?
8. Can I explain what a food chain is?
9. Can I create a food chain for a local habitat?
10. Can I research a food chain for an animal in a different part of the world?

Vocabulary



living



dead



never alive



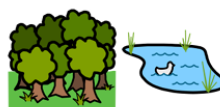
move



feed



grow



habitat



basic needs



food



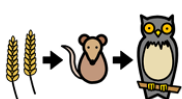
water



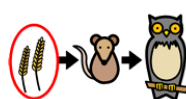
shelter



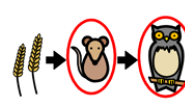
micro-habitat



food chain



producer



consumer



group and classify

Plants

1. Can I find out what plants need to grow well?
2. Can I group seeds and bulbs in different ways?
3. Can I explain the basic life cycle of different kinds of plants?
4. Can I use data to answer questions and make simple conclusions?
5. Can I explain how plants survive in different places?

Vocabulary



grow



healthy



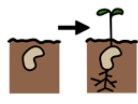
seed



bulb



life cycle



germinate



seedling



mature plant



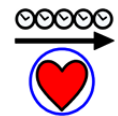
flower



berry



fruit



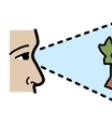
survive



conditions



need



observe



conclusion

Animals Including Humans 2

1. Can I group animal offspring?
2. Can I explain a simple life cycle?
3. Can I compare the life cycle of a human with another mammal?

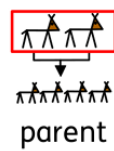
Vocabulary



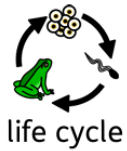
offspring



young



parent



life cycle



change



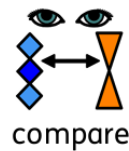
reproduce



mammal



live young



compare


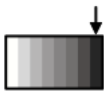





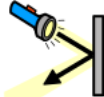






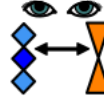



group

Light

1. Can I explain how light helps us to see things?
2. Can I Identify and name some light sources?
3. Can I group materials according to their reflectiveness?
4. Can I classify materials with different properties?
5. Can I demonstrate how shadows are formed?
6. Can I explore how shadows change relative to their distance from a light source?
7. Can I plan and complete a comparative test about shadows?

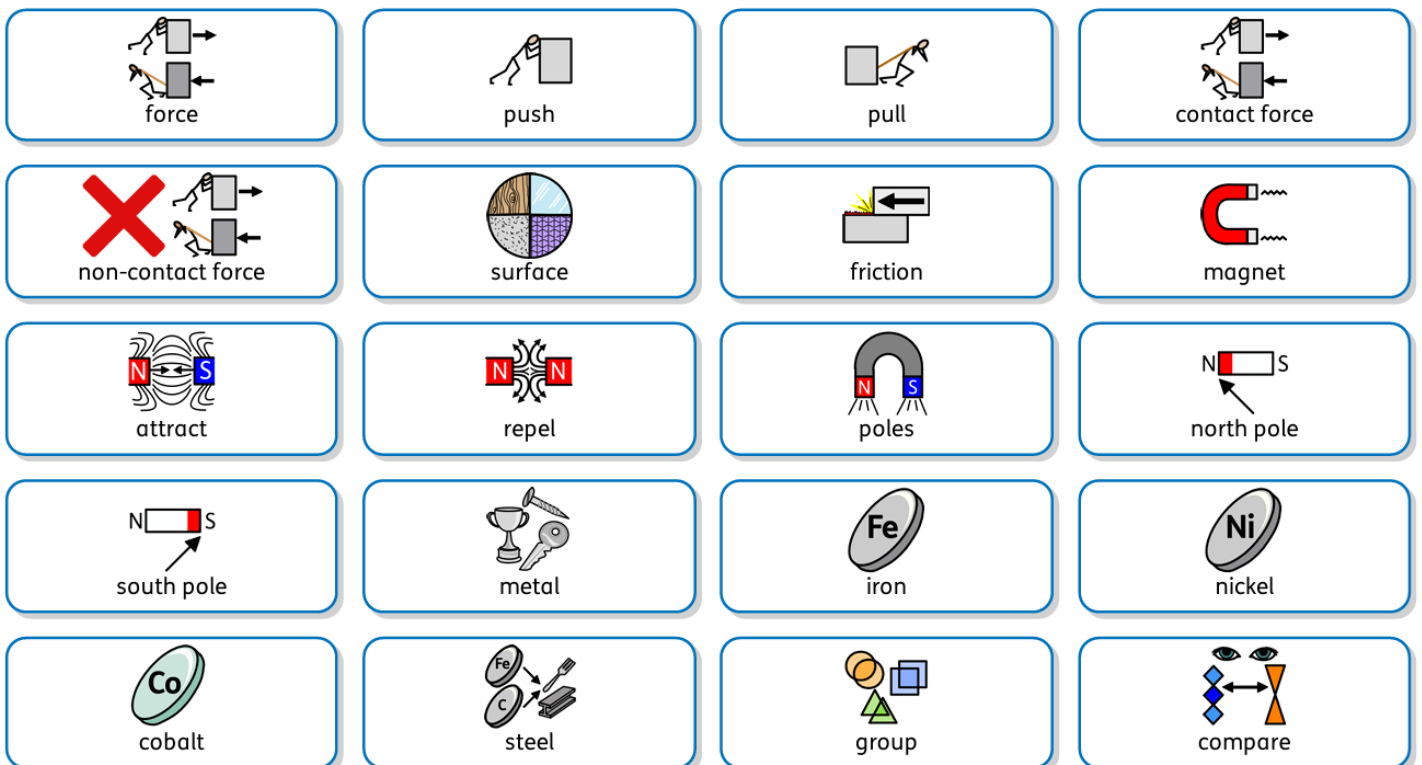
Vocabulary

 light	 dark	 absence of light	 light source
 surface	 shiny	 matt	 reflective
 transparent	 translucent	 opaque	 sunlight
 shadow	 observe	 compare	 group and classify

Forces and Magnets

1. Can I explain what a force is?
2. Can I explain how a surface affects the way objects move?
3. Can I explain what repel and attract mean?
4. Can I classify a material as magnetic or non-magnetic?
5. Can I investigate the strength of different magnets?
6. Can I talk about some ways magnets are used in everyday life?

Vocabulary



Rocks

1. Can I classify some different types of rocks?
2. Can I test the hardness of different rocks?
3. Can I test the permeability of different rocks?
4. Can I explain how fossils are formed?
5. Can I explain what soil is made from?
6. Can I investigate the permeability of different soil?

Vocabulary



rock



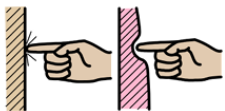
sedimentary



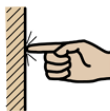
igneous



metamorphic



hardness



hard



soft



permeability



permeable



impermeable



fossil



soil



organic matter



plant material



animals material



observe

Plants 1

1. Can I name the main parts of different plants and talk about their functions?
2. Can I investigate the way water is transported within plants?
3. Can I give a simple explanation of how plants make their own food?
4. Can I predict what will happen if a plant's leaves or roots are removed?
5. Can I observe and explain changes to a plant over time when its leaves or roots are removed?

Vocabulary



root



stem



trunk



leaf



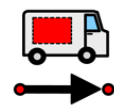
flower



stem tube



absorb



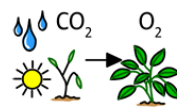
transport



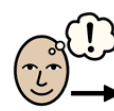
function



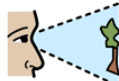
anchor



photosynthesis



predict



observe

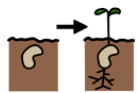


conclusion

Plants 2

1. Can I investigate the requirements for life and growth in different plants?
2. Can I observe and explain changes to plants over time?
3. Can I identify the parts of flowers and describe their functions?
4. Can I explain the main stages in a flowering plant's life cycle?
5. Can I explain some different ways that seeds are dispersed?

Vocabulary



germination



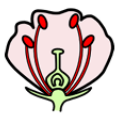
growth



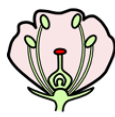
conditions



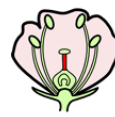
petal



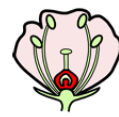
stamen



stigma



style



ovary



pollen



pollination



life cycle



flowering plant



seed dispersal



prediction



observe



conclusion

Animals Including Humans

1. Can I recognise a balanced diet?
2. Can I compare animal skeletons?
3. Can I explain how my skeleton provides support and protection for my body?
4. Can I explain how my bones and muscles work together to make my body move?
5. Can I complete a pattern seeking investigation?

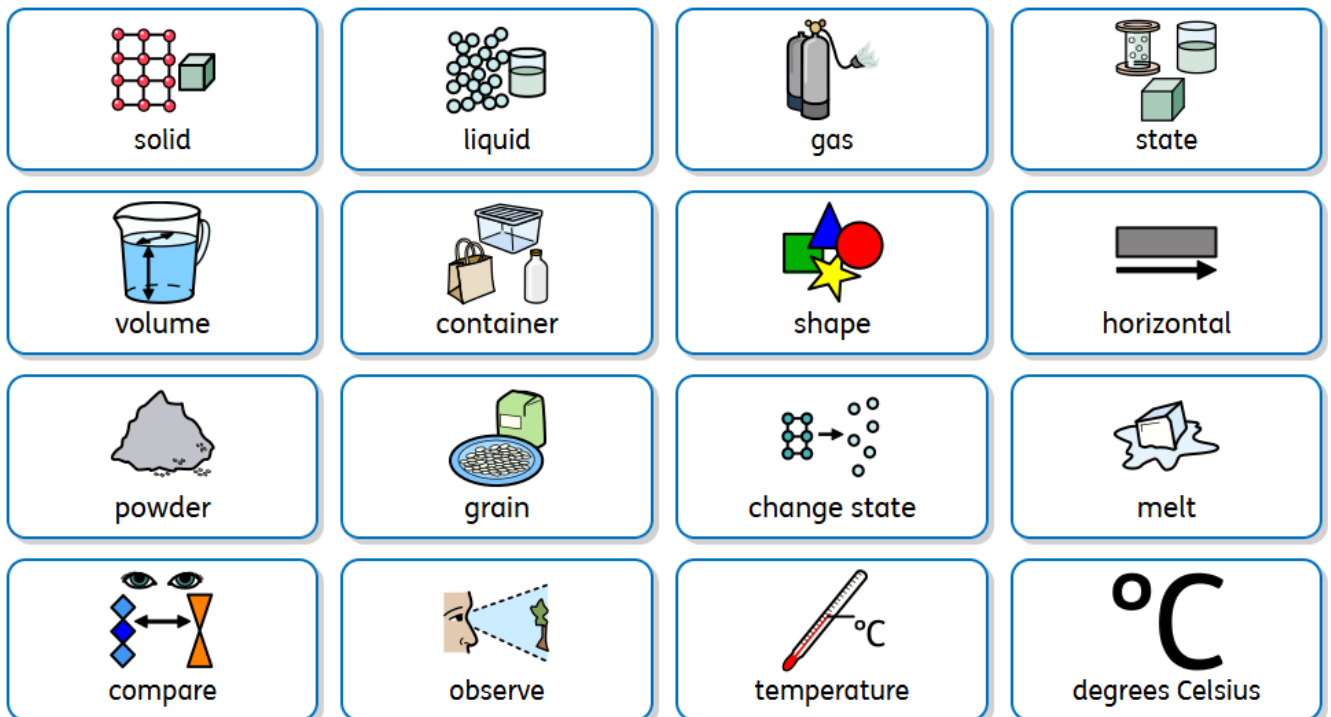
Vocabulary



States of Matter 1

1. Can I explain what a solid is?
2. Can I investigate and recognise the properties of different liquids?
3. Can I recognise the properties of granular or powdery solids?
4. Can I explain what happens when a solid melts?
5. Can I investigate and recognise the properties of gases?

Vocabulary



Electricity

1. Can I classify electrical and non-electrical items?
2. Can I explain how to be safe around electricity?
3. Can I explain what an electrical circuit is?
4. Can I identify and correct problems with circuits?
5. Can I explain the function of a switch in a circuit?
6. Can I explain which materials conduct or insulate electricity?

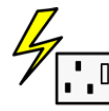
Vocabulary



electricity



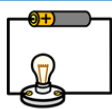
electrical appliance



mains electricity



plug



electrical circuit



bulb



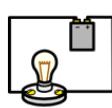
cell



battery



component



complete circuit



connection



switch



conductor



insulator



metal



non-metal

Animals Including Humans

1. Can I describe the simple function of the human digestive system?
2. Can I identify different types of human teeth and their functions?
3. Can I set up a scientific enquiry into tooth decay?
4. Can I explain why different animals have different types of teeth?
5. Can I construct a simple food chain and explain what it shows?
6. Can I research and construct a food chain?

Vocabulary



Sound

1. Can I identify how sounds are made?
2. Can I explain how I hear sounds?
3. Can I explain how sound travels through different mediums?
4. Can I find patterns between the pitch of a sound and the features of the object that produced it?
5. Can I find patterns between the volume of a sound and the strength of the vibration that produced it?
6. Can I explain why sounds get fainter as the distance from the source increases?

Vocabulary



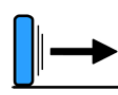
sound



source



vibrate



travel



insulate



pitch



high pitch



low pitch



volume



faint



loud



data logger



compare



group



pattern



measure

Living Things and Their Habitats

1. Can I use classification keys to classify plants?
2. Can I use classification keys to classify animals?
3. Can I explain how the environment can change naturally?
4. Can I explain how humans can have a negative impact on the environment?
5. Can I explain how humans can have a positive impact on the environment?
6. Can I explain how changes to a habitat affect food chains?

Vocabulary



group



classify



classification key



environment



change



impact



natural



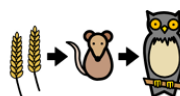
human



negative



positive



food chain

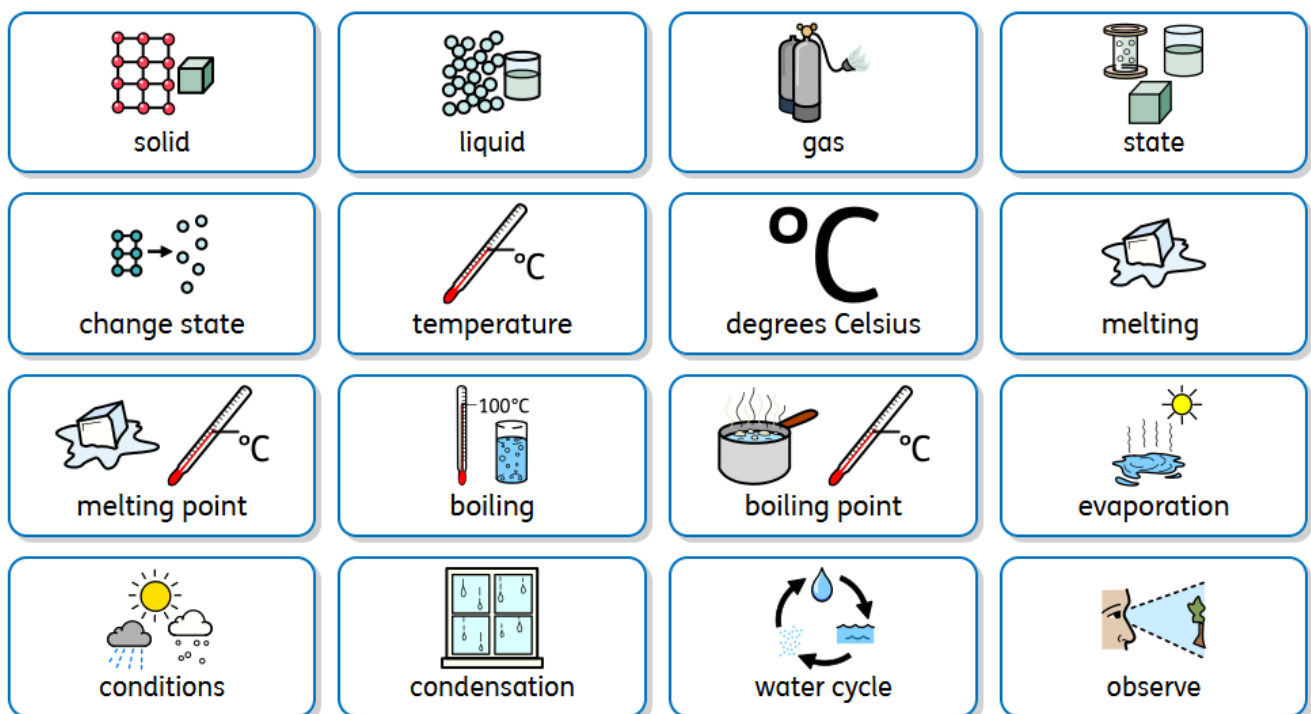


habitat

States of Matter 2

1. Can I explain some changes of state?
2. Can I explain how evaporation occurs?
3. Can I investigate conditions that affect the rate of evaporation?
4. Can I explain what condensation is?
5. Can I explain the different stages of the water cycle?

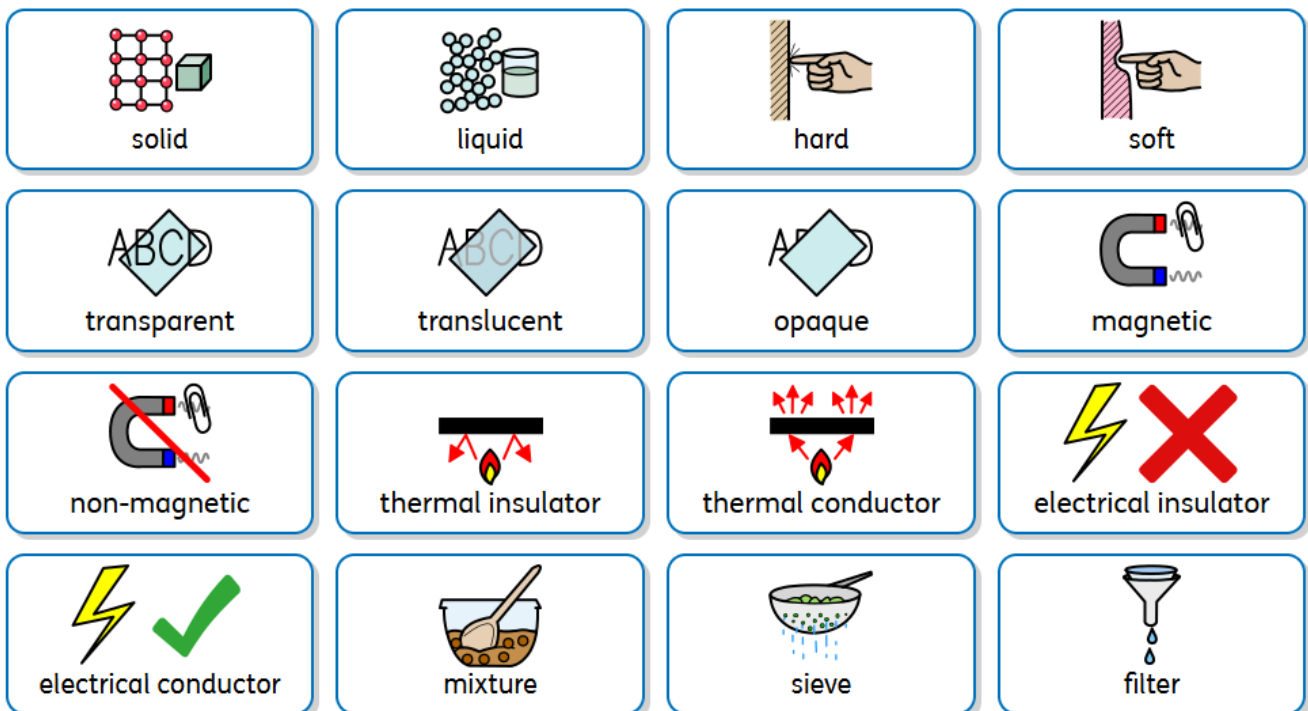
Vocabulary



Properties and Changes of Materials 1

1. Can I compare and group together everyday materials based on their properties?
2. Can I investigate the uses of thermal conductors and insulators?
3. Can I investigate the uses of electrical conductors and insulators?
4. Can I explain what a mixture is?
5. Can I separate a mixture by sieving or filtering?

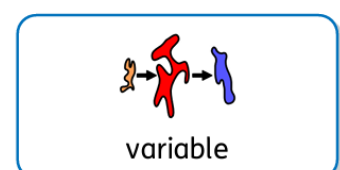
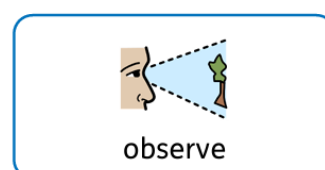
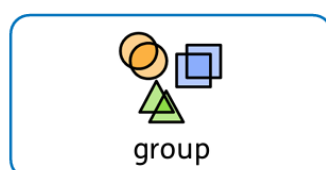
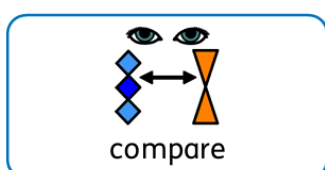
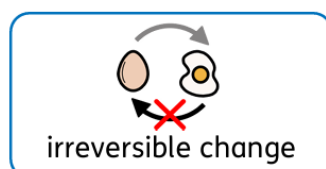
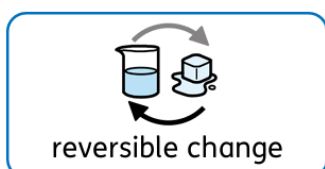
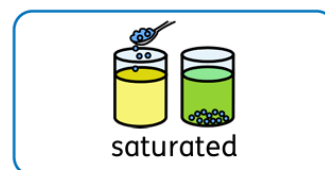
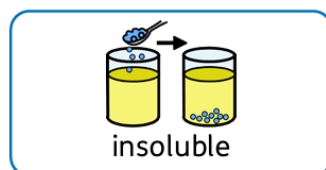
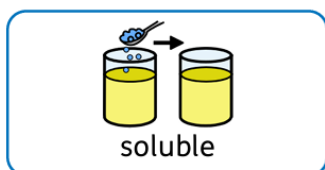
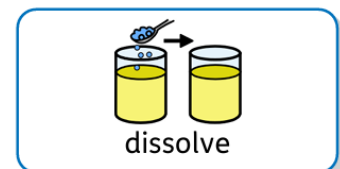
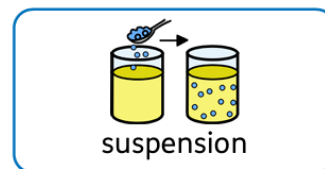
Vocabulary



Properties and Changes of Materials 2

1. Can I identify some solids that dissolve?
2. Can I say what might affect how fast a solid might dissolve?
3. Can I find a liquid's saturation point?
4. Can I separate a mixture using evaporation?
5. Can I explain the changes when a candle burns?
6. Can I plan my own enquiry?

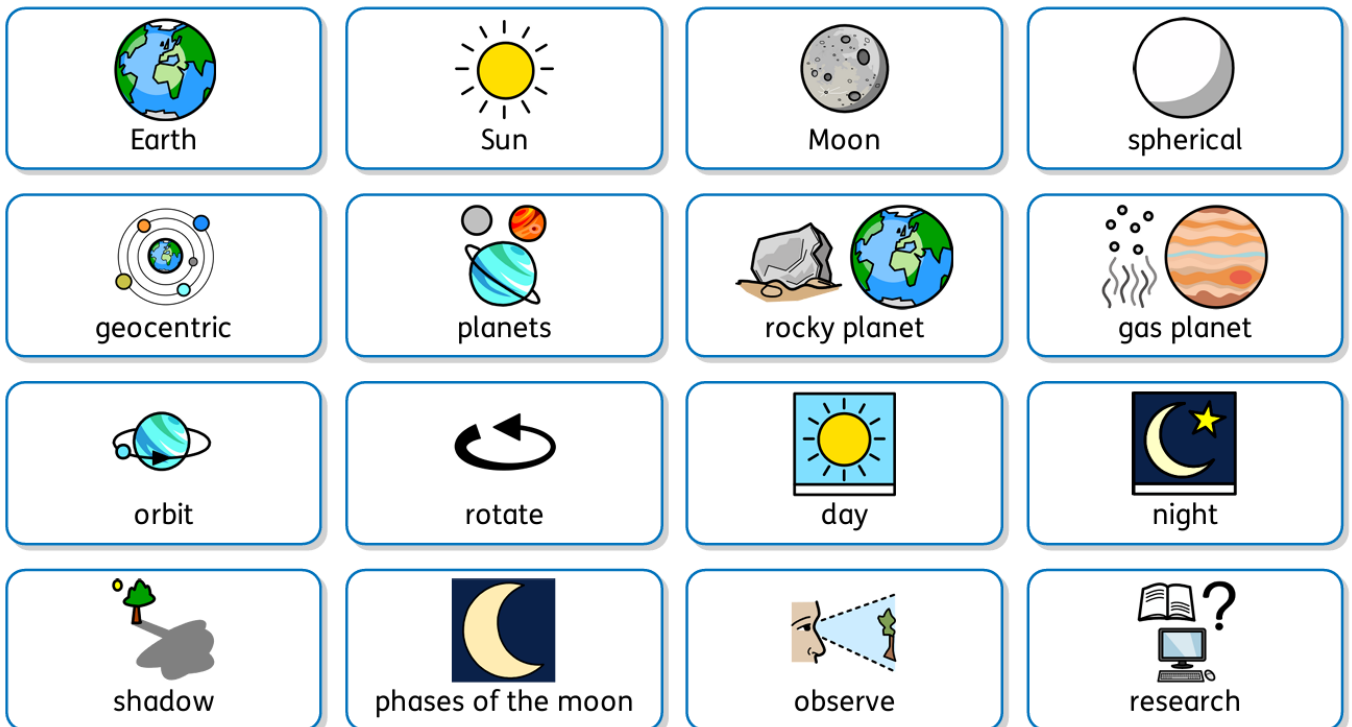
Vocabulary



Earth and Space

1. Can I explain why some scientists disagree?
2. Can I explain what our solar system is?
3. Can I research my own scientific question about our solar system?
4. Can I explain why we have day and night?
5. Can I explain how and why shadows change during the day?
6. Can I explain why the Moon seems to change shape?

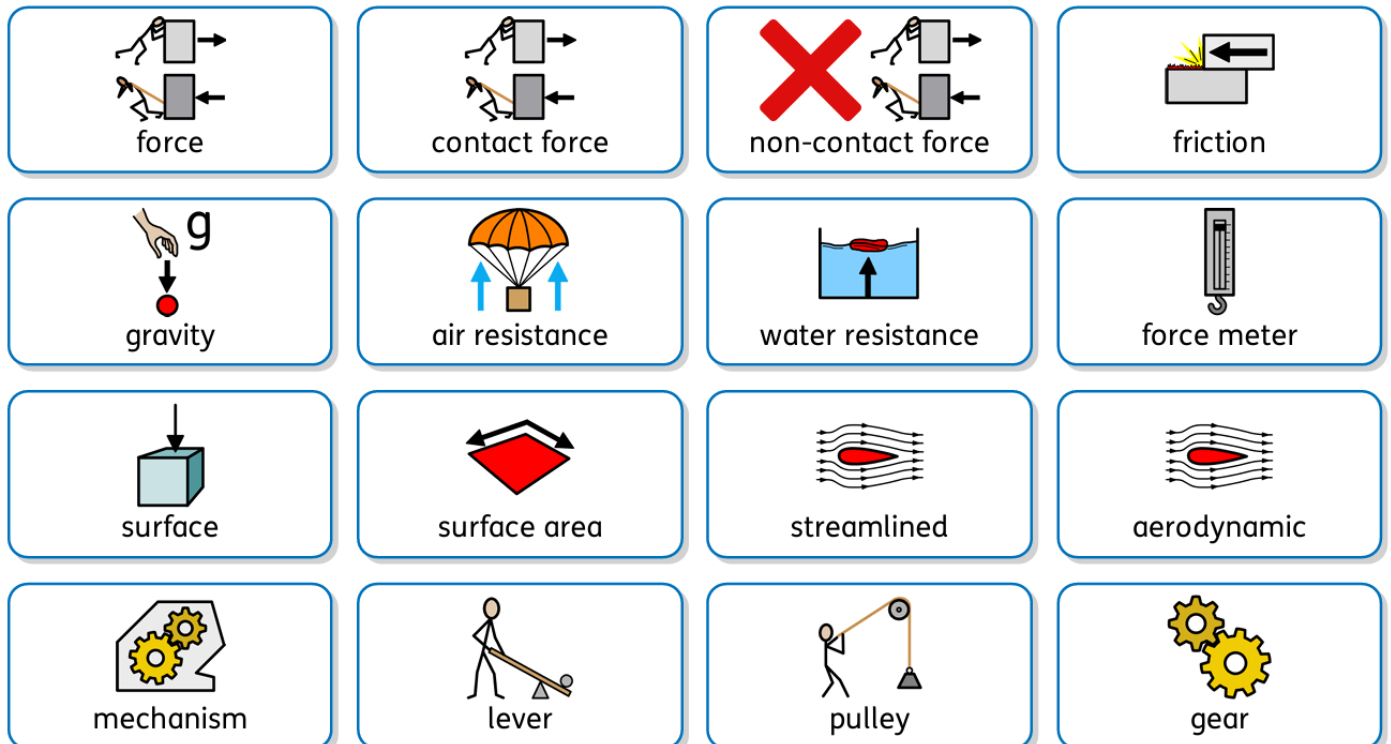
Vocabulary



Forces

1. Can I explain the effects of friction?
2. Can I explain why unsupported objects fall to Earth?
3. Can I explain the effects of air resistance?
4. Can I explain the effects of water resistance?
5. Can I give some examples of how mechanisms make work easier?

Vocabulary



Animals Including Humans

1. Can I explain what babies need and how they develop?
2. Can I explain how my body changes during puberty?

Vocabulary



baby



needs



grow



develop



dependent



puberty



change

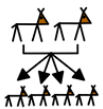


sexual characteristics

Living Things and Their Habitats

1. Can I explain the process of sexual reproduction in plants?
2. Can I explain the process of asexual reproduction in plants?
3. Can I define mammals and explain their life cycle?
4. Can I define birds and explain their life cycle?
5. Can I explain the process of reproduction in mammals and birds?
6. Can I explain the process of metamorphosis?
7. Can I define insects and explain their life cycle?
8. Can I define amphibians and explain their life cycle?

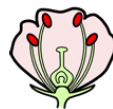
Vocabulary



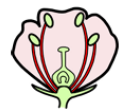
sexual reproduction



asexual reproduction



anther



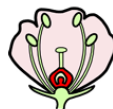
filament



stigma



style



ovary



ovule



mammal



bird



insect



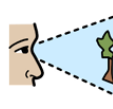
amphibian



life cycle



metamorphosis



observe



research

Living Things and Their Habitats

1. Can I describe how living things are classified into broad groups?
2. Can I give reasons for classifying vertebrates based on specific characteristics?
3. Can I give reasons for classifying invertebrates based on specific characteristics?
4. Can I give reasons for classifying micro-organisms based on specific characteristics?
5. Can I give reasons for classifying plants based on specific characteristics?

Vocabulary



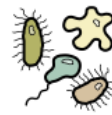
classification key



vertebrate



invertebrate



micro-organism



fungi



flowering plant



non-flowering plant

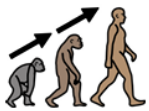


characteristics

Evolution and Inheritance

1. Can I explain why some offspring look like their parents?
2. Can I explain why dogs look so different?
3. Can I explain how a cactus survives in the desert?
4. Can I explain how some animals are adapted to their habitats?
5. Can I explain how living things change over time?
6. Can I explain why birds have different beaks?
7. Can I explain how fossils support the theory of evolution?

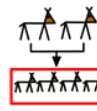
Vocabulary



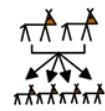
evolution



inheritance



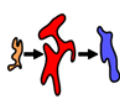
offspring



sexual reproduction



characteristics



vary



species



adapt



environment



suited



fossils



evidence



pattern



group and classify



research



Charles Darwin

Light

1. Can I explain how we see?
2. Can I explain how I can see myself in a mirror?
3. Can I explain why shadows are a certain shape?
4. Can I investigate the shape of shadows?
5. Can I explain what white light is?
6. Can I explain what some scientists have discovered about light?

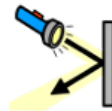
Vocabulary



light



light source



reflect



straight lines



light rays



transparent



translucent



opaque



shadow



white light



colour spectrum

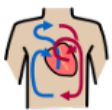


fair test

Animals Including Humans 1

1. Can I identify and name the main parts of the human circulatory system?
2. Can I describe how my heart and lungs work together to move oxygen around my body?
3. Can I describe the function of blood vessels and blood?
4. Can I compare human circulation to other animals?
5. Can I investigate how exercise impacts pulse rate?
6. Can I investigate patterns in pulse rate?

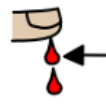
Vocabulary



circulatory system



heart



blood



blood vessels



lungs



transported



oxygen



carbon dioxide



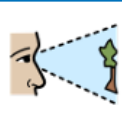
nutrients



water



pulse rate

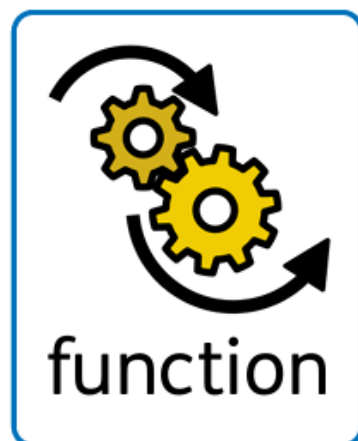


observe

Animals Including Humans 2

1. Can I explain the impact diet can have on the way my body functions?
2. Can I explain the impact exercise can have on the way my body functions?
3. Can I explain the impact drugs can have on the way my body functions?

Vocabulary



Electricity

1. Can I draw a simple circuit using circuit symbols?
2. Can I explain how a switch breaks a circuit?
3. Can I explain the effect of adding more components to a circuit?
4. Can I explain the effect of adding more cells to a circuit?
5. Can I explain what happens when I increase the voltage of the battery in a circuit?

Vocabulary

