

Science home learning challenges

Plants	Grown your own plant from seeds	Sort and compare plants in your local area	Label parts of a weed/ plant	Put food dye into water and see what happens to the flower!	Draw a plant life cycle	Make a list of things that eat/ need plants	Name and recognise wild plants in your local area
Light	Make shadow puppets	Make a list of as many light sources as you can/ have in your house	Draw around your shadow with chalk! Does it change throughout the day?	Star gaze at night time- can you see a shooting star?	Learn about how a rainbow is formed	How many facts can you learn about the sun/ a star?	Design/ make your own sunglasses to protect your eyes
Forces	Make a list of things you need to push to work in your house	Make a list of things you need to pull to work in your house	Make a list of things that are magnetic in your house	Make a video to an alien proving gravity is a real thing	Familiarise yourself and learn to use a compass	Make your own flying rocket	Can you make your own parachute?
Human body	Make a list of things that keep us alive and healthy	Make a video/ instructions to wash your hand correctly	Make a warning poster for Covid-19 to go in your window	Draw around your body and label all of your body parts	Learn what your vital organs are and what they do	Write a diary of the journey your food does each day	Make a poster/ instructions to keep your teeth healthy
Earth	Sort countries into hemispheres	Name all of the planets and order them	Act out the solar system movement around the sun	Research NASA's success to space	Design your own rocket to go to space	Paper mache/ make the planets	Research the space race
Weather	Keep a weather diary	Learn about seasons and their weather/ months	Research weather in a hot and cold country	Make your own weather forecast!	Make a poster to help keep people safe in the sun	Research about the earth's axis and rotation	Design something to keep an eskimo warm
Materials	Make a list of things in your house made of the same/ different materials	Which materials can you stretch or bend?	Watch water turning into steam with your family by boiling the kettle	Melt something!	Freeze something!	Dissolve something!	Burn something! (with adult supervision, of course)
Animals	Draw a food chain- who will eat who?	Name and sort types of animals: reptiles, amphibians, fish, birds and mammals.	Sort animals into carnivores, herbivores and omnivores.	Learn the names of baby animals like Sheep -> lamb	Design your own animal	Make a poster to teach people how to look after a pet	Design your own animal gym to help keep them fit
Electricity	Make a list of all electrical appliances in your house	Learn electrical component symbols	Draw your own electrical circuit	Make your own electricity using a lemon!	Research all about lightening	A – Z of electricity conductors and insulators	Research the inventor of electricity
Sound	Learn about how the ear works	Design your own cochlear implant/ hearing aid	Make a list of sounds high and low pitch	Make your own musical instrument	Make a string telephone- does it really work?	A-Z of things that make a sound	Record your own music using as many different sounds as you can