Going Further with Adult Guidance

5-6 Backyard Sciences Australian Curriculum School Closure Home Learning Pack

Resources in the pack Ouestions to Ask and Additional Activities Weather Station Use a thermometer to measure the temperature over time and add this data to your records. Weather Station Garden Craft Weather Vane How did you record the information from your weather station and changes in the weather, e.g. tables, graphs, drawings, photographs, You will need spreadsheet? • Where did you place your rain gauge, thermometer, anemometer and weathervane? Why? How does the rain gauge/thermometer/anemometer/weathervane work? Cut a square and a triangle out of the card. Make sure the tr How did you measure the amount of rain in your area? Stick the square and triangle into the slits on the straw to r or the base of the weather vane, fill the cup with pebbles. Use sticky to o secure the lid not the cup and turn the cup upside-down. · When did you find you had the most/least rainfall or highest/lowest 5. Stick the pencil through the base of the cup. . Stick the drawing pin into the middle of the straw and then int rubber on top of the pencil. temperature? the weather vane in the garden. You may like to use a c north, south, east and west onto the base of the cup. How did you measure the wind speed using your anemometer? • Why do people find it useful to know the amount of rainfall, wind direction, wind speed or temperature? **Dichotomous Key for Plants** • Use this display poster to help classify plants in your backyard. Create your own dichotomous key to classify the minibeasts or other ious Key for Plants animals you have found in your backyard. · Record how many types of plants you have in your backyard using a table or graph. It's a type of mone or signe (branchates) Create your own dichotomous key for plants matching game by drawing or printing out plant pictures and placing them in the correct position on the dichotomous key. Southern Hemisphere • Look out your window or go into your backyard and look at the moon each Phases of the Moon night. Record what it looks like. **Display Poster** Can you name all the phases of the moon? Use the Phases of the Moon ses of the M Code and PowerPoint to learn more. Are the phases of the moon the same in the Northern Hemisphere? Why does the moon appear to change shape?



<section-header></section-header>	 Research where to find these constellations in the night sky using a star map.
	• Look out your window or go into your backyard on a clear night and see if you can find some of these constellations. It is useful to have a pair of binoculars or a telescope, red LED glasses or glasses that are covered with a few layers of red cellophane (this will allow your eyes to remain dark adapted and still read a star map), compass app on your mobile device and warm clothes.
	 Do these constellations remain in the same position over time? The Earth rotates and so the sky does change over time.
	 Research some scientists such as Copernicus, KhayyÃim and Galileo that studied stars.
School Garden Birds Display Poster	Record the birds that come to visit your backyard.
	 Which birds did/didn't you expect to visit your backyard?
<section-header><section-header><section-header><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header>	Research your favourite backyard bird.
	 How can you make your backyard more bird friendly?
	 Do birds help or harm your backyard?
	 What do the birds in your garden eat and do?
	 What other plants or animals in your backyard depend on birds, e.g. seed dispersal, aerating soil, eating pest insects?
	 What time of day did you record the most/least birds visiting your backyard?
	• What direction did the birds fly when they finished visiting your backyard?
	 Did you see birds flying low or high in the sky over your backyard?
Identifying Insect Pollinators Display Poster	 Use this display poster to help you identify how flowers in your backyard are pollenated.
Insect Pollinators and Flowers tubular flower trightly coloured flower the	 Spend some time observing a flower in your backyard to see if a pollinator you predicted visits the flower.
	Why are pollinators important?
	 What are some different pollinators besides those listed on this display poster, e.g. birds, bats, butterflies and beetles?
	 Record how many types of pollinators you have in your backyard using a table or graph.
	 What do think would happen if one of the pollinators on the poster no longer existed?



Solar Oven STEAM Activity	 Try this experiment on a cloudy day.
	 Time how long it takes to cook different foods.
How to Make a Solar Oven	 Did the foil absorb or reflect sunlight?
	 Why was black coloured construction paper used instead of white?
	 Why is insulation an important feature of an oven?
Instructions 1. How an adult confully draw a topcase onto the top id of the parae box. 2. Adult he adult to out three of the adult of the square, to crease a flap. 3. Low the value of the parae box with black construction paper.	 How do you think the oven cooked the food you placed in it?
 Counsils as pieces of everyoper, and place the pieces amount the permeter of the parate to better insulate the own 6 as use to not over the conter of the box where the food will be placed. Lift or the flag that was contend to practice and board to backs or to append count the practice of the flag with advances field on the contend to the backs of the flag and the the practice of the flag with advances field on the contend the backs of the flag and the the practice of the flag with advances field on the contend to the backs of the practice of the practice of the flag with advances field on the practice of the practice of the practice of the placed. 	Where did the heat come from?
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e nue relatione a verplitat carter o beloar a becom north.	 Can you make any improvements to your solar oven?
	 How is this solar oven like an electric/gas/wood oven found in your house?

