

Topic	Year 2 Activities	Equipment
1. Resources	Essential Resources	Per student:
2. Water (Above ground)	Making Rain	 Activity worksheet* Teacher demonstration (1 set of equipment): Zip lock sandwich bag Hot (not boiling) water Basin or large beaker of ice water Per student: Activity worksheet*
	Water Always Flows Downhill	Per student or small group: • Sloping waterproof surface (cement ramp or plastic tray propped up) • Activity worksheet*
	Rainwater Collectors	Per student: • Activity worksheet (same worksheet used for all activities marked with *)
	Collecting Rainfall	 Teacher demonstration (1 set of equipment): A piece of plastic, such as a garbage bag Two cups/jars of equal size Watering can or soft drink bottle with several pin holes in bottom Measuring cylinder or jug or teaspoon Water Garden or sandpit





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	Water Level	 Teacher demonstration (1 set of equipment): A length of clear plastic tubing, such as aquarium tubing (approx. 1m is ideal) Water (coloured if possible) Jug and funnel Per student: Activity worksheet**
2. Water (Under- ground)	Moving water	Per small group: (may also be done as a teacher demonstration) • Beaker, jar or glass • Eraser or book to chock up container at an angle • Coloured water in jug to fill container approx. 1/3 full Per student: • Activity worksheet** • Coloured pencil (same colour as coloured water if possible)





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2. Water (Under- ground)	Groundwater supplies	 Teacher demonstration (1 set of equipment): Large transparent container, such as a fish tank, catering size jar or tall plastic storage container (1L capacity minimum) Washed gravel or aquarium pebbles to 2/3 fill container Length of tubing, reticulation pipe or garden hose (approx. half as long as the depth of your container) Small plants with roots (weeds are fine) Water (coloured if possible) Syringe (without needle), Pasteur pipette, or narrow tubing (to fit inside tubing) Per student: Activity worksheet** Optional: small animal figurines
	Recharge	Teacher demonstration (1 set of equipment): • Bucket • Glass • Teaspoon • Masking tape or permanent marker • Water Per student: • Activity worksheet (same worksheet used for all activities marked with **)





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2. Water (Transfer to point of use)	Gravity Feed	 Teacher demonstration (1 set of equipment): Funnel Length of garden hose or tubing (approx. 2 metres long) Small bucket of water
	Height Increases Water Pressure/Rate of Flow	Teacher demonstration (1 set of equipment): • Empty soft drink bottle • Thumb tack or sharp nail • Blu-tack • Water
	Height Affects Water Flow	 Teacher demonstration (1 set of equipment): 3 paper cups or zip-lock bags of same size Large nail or scissors 3 student volunteers Outdoor area, such as sandpit or bitumen/concrete area
2. Water Treatment (Small Scale)	Springs, Wells Dams and Bores Settling and Decanting Water	Class discussion - Teacher's Notes for background information Per small group (1 set of equipment per group): Screw top bottle or jar (clear glass or plastic soft drink bottles work well) Beaker or container for clear water (white cup provides good contrast) Teaspoon Water to half fill bottle or jar Newspaper or towels for desk Activity worksheet





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2. Water	Testing Water from	Extension activity - students to collect water samples from local natural sources, such
Treatment	Different Sources	as ponds, rivers or dams. Ensure adult supervision during collection is stressed to
(Small Scale)		students.
	Sand Filtering	Teacher demonstration (1 set of equipment):
		 Empty soft drink bottle with top cut off (to make wider opening)
		 Drawing pin or small nail to pierce holes in bottom of bottle
		 Clean, washed sand to 1/3 fill bottle
		 Container for bottle to sit in/on to collect filtered water
2. Water		Dirty water to filter
Treatment	Filtering Water	Per student or small group:
(Large Scale)		• Funnel
(Lai ge Scale)		• 1 piece of filter paper
		Beaker or container to collect filtered water
		 Container of mixed water and soil to filter
		Possible substitute equipment if above is not available:
		 Soft drink bottle with top 1/3 cut off to form a funnel and beaker
		 Strong paper towel, Chux cloth or thin cotton fabric, for filter
	Essential Water	Per student:
2. Precious Water		Student worksheet
	Worth its Weight in	Per student:
	Gold	Student worksheet
	A Young Bush Hero	Story to read to class from Teacher's notes





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2. Saving Water	Saving School Water PPP - Water Saving at Home	Class discussion - Teacher's Notes for background information Take home activity - Equipment per student: • Tap set to drip • Container to collect drips • Measuring jug or teaspoon • Clock, watch or timer • Optional: food colouring • Toothbrush and toothpaste • Half a glass of water • Tap and basin with plug • Piece of masking or electrical tape
2. Water (Aboriginal Perspective)	A Sign for Water Petroglyph Design	Per student:





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2. Water (Aboriginal Perspective)	Way to Water	 Extension activity. Equipment per student: Paper to paint on Acrylic paint in jar lids Blunt paint brushes or dowel, straws or ends of pencils
	Soil Recipe	 Teacher demonstration (1 set of equipment): (Approx. half a handful of each) Gravel, small pebbles or blue metal rocks Sand Dried leaves and grass (crushed if large) Compost or potting mix Water - approx. 2 tablespoons to moisten mixture Mixing bowl
3. Soils (Introduction)	Senses and Soils	Per student or small group:
	What Do We Use Soils For?	Per student or small group: • Scrap paper for draft • Student worksheet





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3. Soils (Humus)	Humus in Soils	 Per student or small group: Student worksheet Approx. 2 tablespoons of garden soil (from under any mulch layer) Container with well-sealing lid such as small soft drink bottle or jar Water to ½ fill container Paper and pencil
	Willie the Worm	Per student: • Student worksheet
3. Soils (and Worms)	Worm Farm (option)	Per class: Old aquarium or large transparent container Soil Shredded newspaper Vegetable waste Box or cloth to cover worm farm
3. Soils	Save Our Soil Poster Fishbone	Per student: • Student worksheet Per student: • Student worksheet





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3. Soils	PPP - Good Soil and Bad Soil	 Take home activity - Equipment per student: Empty jar or soft drink bottle Soil to 1/3 fill container Water to 2/3 fill container Two containers such as plant pots or yoghurt pots with holes for drainage Permanent marker Two different soils Fast growing seed, such as alfalfa, mung beans or peas
	Dust in Air Pollution and Lung Problems	Teacher demonstration (1 set of equipment): • Darkened room • Torch or light from data projector Class discussion, perhaps with input from Community Nurse on airway problems
4. Clean Air	Dust in the Air	Per student or small group:
	Smoking Signs	Per student: • Student worksheet (same sheet as activity above)
5. Minerals	Everyday Uses	Teacher background information including how to borrow minerals kits from AusEarthEd (WA only) https://ausearthed.com.au/wa/earth-space-science/

