

16. Sustainability action stations

Lesson plan

Learning outcome

Students will participate in practical activities that will enable them to practise sustainable options.

Success criteria

Students will have participated in practical activities that will give them sustainable ideas.

We will know we have learnt this when we participate in the action stations and they give us sustainable ideas.



Pre-lesson preparation and resources

- Collect resources needed – see action stations (pages 32–33). Internet access will be required for one of the stations.
- Before starting the action stations have the students brainstorm their current knowledge about sustainability. Give them two minutes to write everything down.
- Divide students into groups (three to four students in each group) making sure there is a mix of abilities. Students choose a name for their group.



Learning sequence

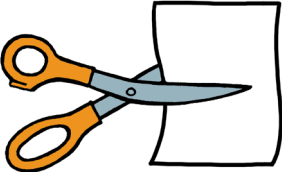

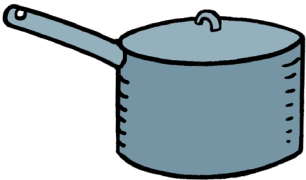
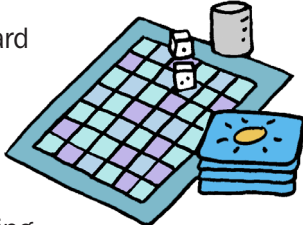
1. Explain to the students that there are eight stations on tables around the room. Each group of students will go to a station and complete a task. When they have finished they will move clockwise to the next activity.
2. Students have three minutes to read the task and make sure all team members understand the activity. Students can ask questions at this stage.
3. Students spend 20 minutes at their task. At the sound of the bell students tidy their station and write in their learning logs about one thing they have learnt and one question they wish to answer.
4. Students share their questions with the whole group.
5. When the bell rings again, students move in a clockwise direction to the next station. Allow several sessions to complete all eight stations.

Conclusion


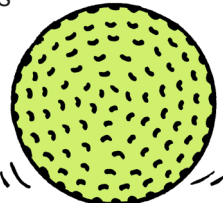

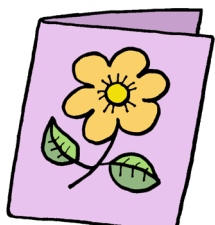
Journal – Once all the stations are complete, students write an evaluation in their learning logs about how well they completed the tasks and how their team worked. Students then grade the activities from one to eight based on their enjoyment of each activity and whether they would do it at home.



Action stations

<p>Make it</p> <p>Attract some butterflies to your school.</p> <p>You will need:</p> <ul style="list-style-type: none"> 1 plastic ice-cream container lid string over-ripe fruit orange juice scissors <p>How to make it:</p> <ol style="list-style-type: none"> 1. Punch a hole in each corner of the lid with scissors or a punch. 2. Use the string to make a holder. 3. Place over-ripe fruit on your feeder. 4. Add some orange juice to prevent it drying out. 5. Hang it on a branch of a tree. 	<p>Plant it</p> <p>Make seed pots from egg cartons.</p> <p>You will need:</p> <ul style="list-style-type: none"> egg cartons scissors soil seeds <p>How to plant it:</p> <ol style="list-style-type: none"> 1. Cut the egg cartons into individual plant pots. 2. Put soil into the pots. 3. Push a bean or pea seed into the soil. 4. Cover it with soil and water regularly. 5. Plant it into a bigger pot when it has grown. 
<p>Cook it</p> <p>Make some fritters with fruit or vegetables in season.</p> <p>You will need:</p> <ul style="list-style-type: none"> electric frying pan $\frac{1}{2}$ cup of grated fruit or vegetables (courgettes, apples, peaches, pears, bananas, sweetcorn or potato) $\frac{1}{2}$ cup of flour $\frac{1}{2}$ tsp baking powder 1 egg pinch of salt & pepper $\frac{1}{4}$ cup of milk herbs (with courgettes a handful of mint, with fruit vanilla, with apples a spice) <p>How to cook it:</p> <ol style="list-style-type: none"> 1. Combine ingredients and fry in pan. 2. Eat! 	<p>Play it</p> <p>Make a sustainable board game with recycled materials.</p> <p>You will need:</p> <ul style="list-style-type: none"> pre-used cardboard paint paper <p>How to play it:</p> <ol style="list-style-type: none"> 1. As a group make a board game using the information you have learnt from the lessons. You could make a snakes-and-ladders game, a Monopoly type game, or make a new game. 2. Possible idea – Drop litter, miss a turn, plant a tree, go forward three places. 



<p>Glue it</p> <p>Cover one of your books with pre-used material.</p> <p>You will need:</p> <ul style="list-style-type: none"> • pre-used material • scissors • glue • ruler  <p>How to glue it:</p> <ol style="list-style-type: none"> 1. Measure the sides of your book. 2. Use those measurements, plus 1 cm around the edges, and cut out of the material. 3. Glue to your book cover. 4. Fold the edges over and glue to the inside of your book cover. 	<p>Roll it</p> <p>Make seed balls for those difficult areas in the garden where nothing will grow.</p> <p>You will need:</p> <ul style="list-style-type: none"> • 1¼ cup of red clay powder • ¾ cup compost • ¼ cup seeds (wildflowers or herbs) • water in a mist spray bottle <p>How to roll it:</p> <ol style="list-style-type: none"> 1. In a container mix compost, seeds and clay powder. 2. Spray water into the mix until it holds together like dough. 3. Roll into 1 or 2 cm balls until smooth on the outside. 4. Dry on a bench top for a few days. 5. Scatter in the garden. 
<p>Worm it</p> <p>Make a miniature worm farm.</p> <p>You will need:</p> <ul style="list-style-type: none"> • 2 ice-cream containers • food scraps • newspaper • cardboard • water • worms (worm-farm type) • soil or compost • scales  <p>How to worm it:</p> <ol style="list-style-type: none"> 1. Pierce 6 holes into the base of one of the containers. 2. Shred newspaper and soak in water. Squeeze out water until it is like a sponge. Pull apart and lay on container with holes. 3. Add soil to the top container on top of the paper. 4. Place worms in top container and put in same weight of food as weight of worms. 5. Make holes in the lid for air, and put on top. 6. Put in a cool, shady part of the classroom and check regularly. 	<p>Fold it</p> <p>Make a card and envelope.</p> <p>You will need:</p> <ul style="list-style-type: none"> • used card (old cereal boxes) • thin card • corrugated shapes • greeting cards and magazines • paint • glue • scissors  <p>How to make and fold it:</p> <ol style="list-style-type: none"> 1. To make cards – select a card and cut to size (use other cards as a template). Paint the outside one colour and allow to dry. Glue on cut-out corrugated shapes or ribbon. <p>To make envelope – take a square of paper. Fold 2 opposite points into the middle. Then fold the bottom point into the middle. Last, fold the top point down so it overlaps the centre. Stick bottom flap to sides with glue or doubled-sided tape. See diagram at http://rubberstamping.about.com search <i>Make an easy folded paper envelope</i>.</p>