

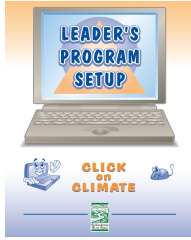
CLICK ON CLIMATE



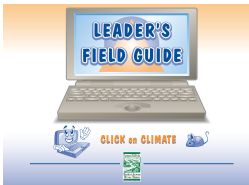
'Click on Climate' is an activity-based educational program which has been designed for one instructor and five children. However, it can easily be adapted for larger groups by photocopying the materials and collecting more supplies for the field exercises.

Standard use of 'Click on Climate' includes various activities before, during and after the field day event. This allows you to use the kit to engage the children for a number of different fun lessons.

Where to Start



The *Leader's Program Setup* provides you with important reminders for planning a field day, as well as some background information on climate change. On page 12, you will find an index to additional activities that can be used to integrate the field day into daily life. Reading through pages 1 to 12 will introduce you to the program basics, and the remainder of the book can be referenced if you would like to incorporate additional activities prior to and after the field trip.



The *Leader's Field Guide* is the most important resource for the instructor. Each page displays one *Field Logbook page* that will be used by the children, side-by-side with instructions for the leader. By reading through the *Leader's Field Guide* in its entirety, you will understand the program exercises and can then determine the best activity options for your particular group and time frame. Each Activity Set will take approximately 30 minutes.



The *Information Files* booklet is a 'mini textbook' that provides more specific information on climate change. It can be used to complete the *Climate Change Challenge*. Additional copies of this document are available upon request. These books were meant to be reused and should be returned to the group leader.

Remember the Click on Climate kits are reusable.
So don't give away the Informan Files!

The *Climate Change Challenge* is a set of brainteasers and can be found in the white *Masters Envelope*. It is always open-book, so participants use the Information Files to solve these word puzzles. This would best be completed prior to the field exercises, and is something that can be done indoors.

Feel free to make as many copies as needed. Additional puzzles can be found 'Click on Climate Kids Files' on our website www.saskriverbasin.ca



Carbon Credits

Carbon Credits points are generally awarded when the children have adopted environmentally friendly lifestyle choices and field methods. A breakdown of the credits can be found on page 4 of the *Leader's Field Guide*. It is encouraged that the entire total of carbon credits be celebrated and not the individual amounts. These carbon credits also help us to measure the success of the program!

Please keep track of the number of Credits awarded and submit it on your evaluation/comment sheet. Credits will be totaled and displayed on www.saskriverbasin.ca (under the Click on Climate section). Should your group earn additional Credits (from activities such as "Energy Audit" and "Delete This Habit"), please email the additional number of credits and your name to partners@saskriverbasin.ca



Tips for Success

This symbol in the *Leader's Field Guide* shows important tips and things to consider when leading or planning the activities.



Instructions

This symbol ‘Mouse’ will point you to instructions in the *Leader’s Field Guide* to help you lead the activities.



Additional Information

This symbol points to additional instructions in the *Leader’s Field Guide* that you can share with the participants.



Activity Sets

This symbol identifies the Activity Set within the *Leader’s Field Guide*. Activity sets can be used to identify individual stations for larger groups (i.e. have station 1 complete all activities in Activity Set 1). They can also be used as separate, independent activities. Each Activity Set should take approximately 30 minutes.

Survey

When you have completed the ‘Click on Climate’ Field day and any additional activities, we request that you fill in the *Evaluation* form included in the white envelope OR you can fill it in online at the ‘Click on Climate Leaders Files’ at www.saskriverbasin.ca.

Your comments are needed to gauge the success of the project.

Feel free to submit additional Carbon Credits by emailing your name and the number of additional carbon credits to partners@saskriverbasin.ca

General Tips/Options

Additional Activities

On page 12 of the *Leader’s Program Setup*, there are many different activities which can easily be incorporated before, during or after the field trip. Most of these can also be used as stand alone activities.

1/2 Day Event

For those who can only spend a half a day doing the activities, you can follow the details on page 8 of the *Leader’s Program Setup*.

More than 1 Day

If you have more than one day for the ‘Click on Climate’ program, then we suggest you incorporate time to complete the additional activities (such as Solar Cooking).

Solar Cooking

This is a fun activity for any age. Instructions for making your own solar oven can be found online at the site listed on page 17 of the *Leader’s Program Setup*. Try contacting your local appliance dealer for cardboard. For the oven part, you will need a black loaf pan. The instructions say to paint the pan black using Tempera powder paint and glue. We found that the paint/glue would not stick to the metal. Therefore, we found it easier to buy or use a black pan from home.

The solar oven can be used to cook food or reheat lunch. The ovens also warm up cookies really well! Success of this endeavor is dependent upon the cloud cover.

Keep in mind that the solar ovens are lightweight and can get blown around if there is sufficient wind.



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Your TIPS and Advice

If you have any suggestions, games, activities, or tips to help make the activities easier, please share them with us. We will gladly put your comments and ideas on our website!

Partners FOR the Saskatchewan River Basin
www.saskriverbasin.ca

Sample Schedule: 1 Whole Day

Prep Time

- Read through Click on Climate materials (*Leader's Program Setup, Leader's Field Guide, and Information Files*).
- Choose the activities you want to use and develop a schedule to plan your day.
- Locate, visit site and mark field site (*Leader's Program Setup pg 5-6*).
- Collect required materials for the activities
- Photocopy the *Climate Change Challenge* and any additional *Logbooks* needed.

Day of Field Trip

- 9:00 - 9:15 Fill in journal entry (*Logbook pg 2*)
- 9:15 - 9:30 Group introduction to climate change
- share journal entries,
 - discuss GISMO's questions (bubble on "Document Your Journey" *Logbook pg 2*)
- 9:30 - 10:30 Read the *Information Files* and complete the *Climate Change Challenge*
- optional:
- read through the *Information Files* and then have a timed trial to see who knows climate change so well that they finish first with the correct answers
 - complete the *Climate Change Challenge* as you work through the *Information Files*
 - can be completed in small groups, partners, or individually
- 10:30 - 10:45 Discussion of the *Climate Change Challenge* and answers
- 10:45 - 11:15 One optional activity, such as "Heat, Heat, Heat!" (*Leader's Program Files pg 12*)
- 11:15 - 11:45 One optional activity such as "Plant Some Carbon Sinks" (*Leader's Program Files pg 20*)
- 11:45 - 12:00 Clean-up, preparation for the field, and preparation for lunch
- 12:00 - 12:30 Lunch: earth friendly snacking or solar cooking (*Leader's Program Files pg 15,17*)
- 12:30 - 3:15 1/2 day field day (*Leader's Field Guide pg 8*)
- | | |
|--|----------|
| The Orange Story (<i>Leader's Program Files pg 13</i>) | (30 min) |
| Setup for Monitor the Greenhouse Effect (<i>Leader's Field Guide, pg5</i>) | (15 min) |
| Activity Set 1: (<i>Leader's Field Guide pg 6-8</i>) | (30 min) |
| Activity Set 2: (<i>Leader's Field Guide pg 9-10</i>) | (30 min) |
| Activity Set 3: (<i>Leader's Field Guide pg 11-13</i>) | (30 min) |
| Activity Set 4: (<i>Leader's Field Guide pg 14-16</i>) | (30 min) |
- 3:15 - 4:30 Clean-up and discussion
- | | |
|---|----------|
| Select Pledges (<i>Logbook/Leader's Field Guide pg 19-20</i>) | (10 min) |
| Record the second Journal Entry (<i>Logbook pg 22</i>) | (15 min) |
| Award Carbon Credits (<i>Logbook/Leader's Field Guide pg 4</i>) | (10 min) |

Follow-up

- Fill in the *Program Evaluation Form*, either online at the 'Click on Climate Comments Page' at www.saskriverbasin.ca, or complete the form in the white envelope. Fax or mail to the Partner's Office.
- At a later meeting, ask the children about the pledges. You can also award additional carbon credits for any additional activities (such as "Delete This Habit" *page 20 of the Logbook*)
- Feel free to submit additional carbon credits - by either resubmitting your form or by emailing your name and the number of carbon credits to partners@saskriverbasin.ca

Additional Options

- Incorporate the "Recycling Info Blitz" (*pg 20 Leaders Program Files*) into travels to and from the field site.
- Complete the "Earth Options", "Delete this Habit" and the "Energy Audit" after the field day (*Logbook pg 17-18*) The Energy Audit can be done at a school!



Modifying for a 1 or 2 Hour Educational Session

If you want to focus for 1 to 2 hours on an educational component, any of the Activity Sets will work well. These Activity Sets are identified in the *Leader's Field Guide* by the globe at the top of the page. When completing the Activity Sets, there are corresponding pages in the Logbook for the children to fill out. Copies of specific pages being used can be easily made from the Click on Climate Masters sheets (located in the white envelope).

Overall, a variety of field exercise combinations can be used to create a short lesson in an educational context. Weather, resources, location and group size should be taken into account when choosing which Activity Set to use. The *Logbooks* provide helpful worksheets which reinforce what children learn in the field, and can be complimented or replaced with other materials to suit the group.

Activity Set 1

From Activity Set 1, the first three exercises (*Leader's Field Guide* pg 4-7) can be completed in almost any environment, such as one easily found outside of a school or home. These activities are convenient when you have limited vegetation, limited supplies, or would rather not have a big clean-up when you're finished.

- The "Monitor the Greenhouse Effect" (*Leader's Field Guide* pg 5) activity requires a car, but a small shed with windows in a sunny location would work as well.
- "View the Weather" (*Leader's Field Guide* pg 6)
- "Find the Carbon" (*Leader's Field Guide* pg 7)
- The "Carbon and Water Keepers" (*Leader's Field Guide* pg 8) activities require vegetation. A good location may be a nearby park, as you will need a leaf-covered stem of a plant. This exercise helps to show the importance of plants in our environment and the potential impacts to them because of climate change. Minimal preparation and clean-up is required.

The goal for the participants in this program is to adopt conservation practices that reduce the effects of climate change.

Decide how long you wish to spend on this program. There are several options, depending on how many activities you choose to incorporate.

Activity Set 2

"Zoom in on a Soil System" allows students to have a closer look at soil and its effect on climate (*Leader's Field Guide* pg 9-10). These exercises require a location where you can dig up soil, and may be a little messy. There is a built-in challenge to complete this activity with only one litre of water.

This activity requires some materials from home:

- 250 mL plastic container,
- 450-500 mL clear plastic drink bottle with lid,
- 1 or 2 L plastic drink bottles (with 1 L of water)
- small trowel or metal spoon.

Activity Set 3

Take time to properly instruct the children in this activity (*Leader's Field Guide* pg 11-13). If this activity is used on its own, concepts such as carbon sinks, carbon dioxide producers, and mapping should be introduced prior to beginning. The mapping exercise also requires a large field site which is clearly marked (*Leader's Program Setup* pg 5).

Activity Set 4

"Zoom in on an Ecosystem" (*Leader's Field Guide* pg 14-16) activities require vegetation. A good location may be a nearby park, as you will need leaves, and places to look for insects. These exercises help to show the importance of plants and animals in our environment, and the potential impacts to them because of climate change.

Small Versus Large Groups

The standard 'Click on Climate Kit' was designed for 1 leader and 5 children. However, the program is very versatile and can easily be adapted for larger groups. For groups with more than 5 children, make additional copies of the *Logbooks* (using the masters provided in the white *Masters Envelope*).

One of the challenges to using the program is what to do with large numbers of children. Although 'Click on Climate' can be followed fairly easily with a small group of 5 children and one leader, it can become more challenging as numbers increase.

The first step is to divide the children into manageable groups (10 or less). After that there are two simple ways to deliver this program.

- 1) Each group can be assigned to one leader who is responsible to lead the group through each of the Activity Sets. In this case, each leader runs through their own 'Click on Climate' program. Therefore, you will need one kit and any additional supplies per leader.
- 2) The groups can rotate to a new leader for each Activity Set. In this case, each leader would be responsible for delivering one particular Activity Set to all of groups of children. The leader will only require the instructions and supplies for that particular Activity Set. The appropriate pages of the *Leader's Field Guide* and *Leader's Program Setup* can be photocopied. On the very last page of the *Leader's Field Guide*, there is a table which can assist you in scheduling each group and at what time they should rotate on to a new leader.

Example Group Schedule	Leader & Activity Set	Activity Starting Times			
		1:00 pm	1:30 pm	2:00 pm	2:30 pm
	Anna (#1)	Group A	Group B	Group C	Group D
	Barb (#2)	Group D	Group A	Group B	Group C
	Carol (#3)	Group C	Group D	Group A	Group B
	Debbie (#4)	Group B	Group C	Group D	Group A

Individual Activities Easily Adapted for Larger Groups

Large group sizes are mostly likely problematic when activities require supplies and detailed instructions. If you don't have time to run the entire field day program, you can easily choose particular activities. There are many activities which are suited or can easily be adapted for larger groups.

- Heat, Heat, Heat! (*Leader's Program Files pg 16*)
- The Orange Story (*Leader's Program Files pg 13-14*)
- Looking Near, Looking Far (*Leader's Program Files pg 18-19*)
- Use Your Local Resources (*Leader's Program Files pg 19*)
- Recycling Info Blitz (*Leader's Program Files pg 20*)
- Anti-Idling Campaign (*Leader's Program Files pg 20*)
- Plant Some Carbon Sinks (*Leader's Program Files pg 20*)
- A scavenger hunt (*Factsheet "Modifying for a 1-2 hour Activity"*)
- Hike (*Factsheet "Quick Activities for Short Events"*)



Quick Activities for Short Events

When shorter events are required for groups with a large age range, such as a public hike, you may want to stick with activities which can be carried out independent of the *Logbook*. Most of the 'Click on Climate' exercises can be carried out independent of each other.

One thing to keep in mind is that some of the 'Click on Climate' exercises require supplies, which may be a challenge when working with unknown numbers of the public. If exercises requiring materials are going to be used, it may be best to have a particular number of sets created and divide the children into that many groups. Keep in mind that fewer groups may be easier to manage when there are a limited number of leaders.



Activity Possibilities:

- 'The Orange Story' (*Leader's Program Setup pg 13*). During this activity, participants use an orange as a metaphor for Earth to learn about greenhouse gases and the carbon cycle. You will need one small orange for each participant. You will also need enough space for each participant to sit comfortably. This activity does not require any note-taking and should take approximately 30 minutes.
- 'Heat, Heat, Heat!' (*Leader's Program Setup pg 16*) can be done with large groups and does not require any note-taking. This is a physical activity game where children run around acting as carbon dioxide molecules. You will need 3 hula-hoops, and a large area for the participants can freely move around. This activity can be played indoors or outdoors with a group of 10 to 30 participants. It will take approximately 30 minutes.
- A scavenger hunt is a fun way to expose the children to the concept of climate change. Activities such as 'Zoom in on an Ecosystem' (*Leader's Field Guide pg 9-10*) are particularly useful. For a scavenger hunt, children could search for particular types of leaves, insects, carbon producers, or anything else you can think of. Worksheets such as those in the *Logbook* can be used, or new ones could be created to include the particular items the children will be looking for (see example scavenger hunt sheet).
- Hike. Many of the exercises could be incorporated into a hike with stations set up along the way. Each station could be used to carry out an exercise. Also, stops along a hike could integrate physical examples of the climate change information found in the *Information Files*. Each stop could represent one of 'Gismo's Laws.' For example, stop to take a look at the air, water, life, and land – and discuss the matter and energy that move through these systems (*Information Files pg 6*). Hiking might be a good way to incorporate climate change information. Asking questions along the way will help to engage participants. An example setup of GISMO's hike can be found on the 'Click on Climate Leaders Files' at www.saskriverbasin.ca

At the end of the activity, when the public and/or children's parents are around, you can mention some of the other themes in the kit, such as recycling, reducing automobile idling, and having families prepare home energy audits. It is important for families to realize their at-home contributions to climate change and the ways they can make a difference.

Survey:

To help us gauge the success of the program, please keep us informed as to the various activities you have completed. Please take the time to complete the *Evaluation* form (in the white envelope) or online with our 'Click on Climate Comment page' at www.saskriverbasin.ca

If you have an interesting related activity, please share it with us! Email us at partners@saskriverbasin.ca or call Jennifer at 1-800-567-8007.