

MASSIVE CHANGE

The *Massive Change* exhibition and tour is a project by Bruce Mau Design and the Institute without Boundaries, commissioned and organized by the Vancouver Art Gallery.

Congratulations! You and your family have just joined the *Massive Change* project. You are now part of an international network, exploring a world of change.

Please use this Family Guide to help you explore the main-floor galleries.



Segway Evolution
Photo: Segway LLC

Look

MOVEMENT

- How do you get from place to place? How did you get here today?
- If you could use any of the vehicles in this room, which would you use? Where would you go?

How do you think these vehicles work? They are powered by electricity. The Segway is designed to move one person short distances in the city. The white car is the Twike. It is a cross between a car and a bicycle with an electrical motor to help you go faster and farther. Both of these vehicles create zero pollution, which is better for the environment.

ENERGY

Energy is what we use to power things.

- What types of power do you have in your house: natural gas for the stove, wood for your fireplace, or batteries in some of your toys?
- Can you think of any other sources of power? What about the wind and sun?

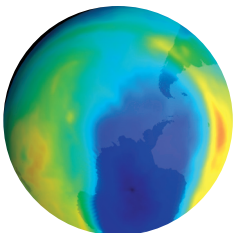
In the center of the room is a windmill that generates power. The MCA will have some on top of its roof. There is enough wind power flowing across the country to supply all of the electricity we need. North Dakota winds alone could power 40% of the country. That's a lot of energy if we catch it.

URBAN

- Where do you live? Do you live in the city or the suburbs? Do you live in an apartment or a house?
- If you could design a house, what would it be like? Would it be in the city?
- How would you make your house friendly to the environment?

Places that are friendly to the environment are called green. Did you know Chicago is trying to be the greenest city in North America? This means that the city is trying to reduce pollution and create more green space such as parks and gardens, even by putting them on roofs like city hall!

Describe



The ozone hole
Photo courtesy of Ozone Process Team
and Scientific Visualization Studio at NASA's
Goddard Space Flight Center

Connect



Find

IMAGE

Wall to wall images! Every day we see pictures all around us: ads on buses, trains, and TV as well as photographs in the newspaper and magazines and on the Web.

- What images do you see in this room? How many do you recognize?
- Are these images you see every day?

At home go through magazines, catalogues, and photo albums. Are you surprised at how many images there are? Gather images of the things you see around you every day in a scrapbook.

MANUFACTURING AND MATERIALS

Everything is made of something. These rooms are full of many different types of materials. Most of them can be recycled. When you recycle items, they get turned into something new that you can use again.

- What types of materials do you see?
- What materials do you see that can be recycled?

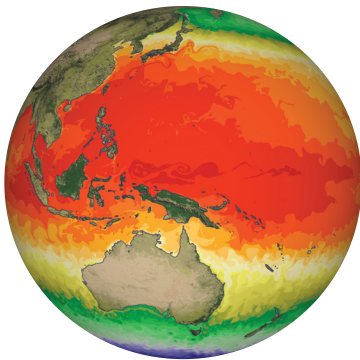
Artists use many kinds of materials too. Some use traditional ones such as paint or a pencil, but other artists use things such as lightbulbs or oil barrels in their art. As you explore the rest of the museum, think about the materials the artists used.

MASSIVE CHANGE AT HOME

Now that you can do anything, what will you do?

- Switch from incandescent lightbulbs to compact fluorescent bulbs. They are more expensive at first but are cheaper in the long run and use $\frac{1}{4}$ less energy.
- Turn the water off while you brush your teeth, and you can save nearly ten gallons of water every time.
- Never throw away old batteries. They contain mercury, which is poisonous to the environment. Switch to rechargeable batteries and recycle your old ones.
- Buy eggs in cardboard containers, instead of styrofoam, which lasts about 500 years in landfills.

Try



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