

## Read, draw and understand the climate changes

- On our planet all the energy for the living organisms come from the sun. (Colour the sun and the planet)
- The plants and the algae are able to make oxygen and sugar from CO<sub>2</sub> and water. This is called photosynthesis. (Colour the pine, the palm and the deciduous tree).
- The animals, bacteria and all the other creatures live of the plants and each other. They use the oxygen (O<sub>2</sub>) and the sugar from the plants to live, and when they breathe CO<sub>2</sub> and water is emitted into the air. (Colour the humming bird, the crab, the whale and the elephant).
- That way, a cycle in nature goes around so that everyone gets what they need to live. (Colour the cycle symbol, the flower, the fish and the sea lion).
- Humans are clever at getting ideas for surviving and living well. We want heat for our houses, good food and a lot of gadgets and things we need for different purposes or just like to have. (Colour the human family, the house, the factory and the fruit bowl).
- Some of the organisms, who lived a long time ago, lie deep underground and have turned into oil, gas and coal. In a way the energy from the past is conserved in the ground. Over a hundred years ago, humans began digging up this fossil energy to make power for all the things they wanted and needed. That means, that humans have it much easier and better than all the other animals. (Colour the dinosaur, the oil drum and the clam).
- When something is burned CO<sub>2</sub> is released. When coal, gas and oil is burned humans release energy and CO<sub>2</sub> from the past, which doesn't belong in the cycle of CO<sub>2</sub> and O<sub>2</sub> of the animals and plants today. (Colour the fire and the flame).
- Our planet is covered by a layer of CO<sub>2</sub>, which keeps the heat from the sun near the planet. This is called "The Greenhouse Effect". This is good because without it we would freeze to death in the cold universe. (Colour the galaxy).
- 70 years ago the scientists began to warn us that using fossil fuels for energy could change the climate on our planet. This happens because the excess CO<sub>2</sub> thickens the layer in the atmosphere and keeps more heat near the planet. (Colour the thermometer, the globe and the scientist with the book).
- All the living organisms are adapted to a certain temperature so many of them can't live if the planet gets too warm. The animals and plants and everyone else live from one another so if one species goes extinct it can effect the others. (Colour the tiger, the bee, the sparrow, the tortoise, the panda, the frog and the little plant).
- If it gets a lot warmer the plants dry out and then large areas on the planet could turn to desert where nothing can grow. That's not good for humans either because we need land for fields for our food. (Colour the desert and the apple).
- We can still do something about all this. For example; you could travel by train instead of flying because much more fuel is used for planes than trains. Your bike is totally CO<sub>2</sub> free. You can shower a bit shorter and turn the radiator down when you open the windows. You can recycle your trash so they don't have to produce too much new things. (Colour the plane, the train, the shower, the bicycle, the car and the recycle bins).
- It is a good idea to spend your money on cosy things like theatre tickets or nice food. It is not a good idea to use your money on things that you don't really need. A lot of energy is wasted on making new things that are thrown out too soon. (Colour the money, the shopping cart and the masks).
- More and more humans inhabit this planet and we all need food. Every time we need more food, we need more fields. Forests are cut down to make fields for crops and farm animals. The farm animals eat crops as we do. Therefore, the scientists are telling us to eat more plants and less meat because we can save a lot of energy if we eat the crops ourselves directly. That's why a lot of humans are beginning to eat less meat. (Colour the people pyramid, the corn, the cherries and the cow).
- The plants absorb CO<sub>2</sub> so it is mindless to cut it down to make room for fields. We could plant more forest instead to help get rid of the extra CO<sub>2</sub>. (Colour the spruce forest).
- In the end, it is the job of the politicians to make new laws to stop the climate crisis. More and more humans are demanding the politicians to do something about it as fast as possible. Some even demonstrate and make happenings to make someone do something. What do you think you can do? (Colour the politician with the tie and the question mark).