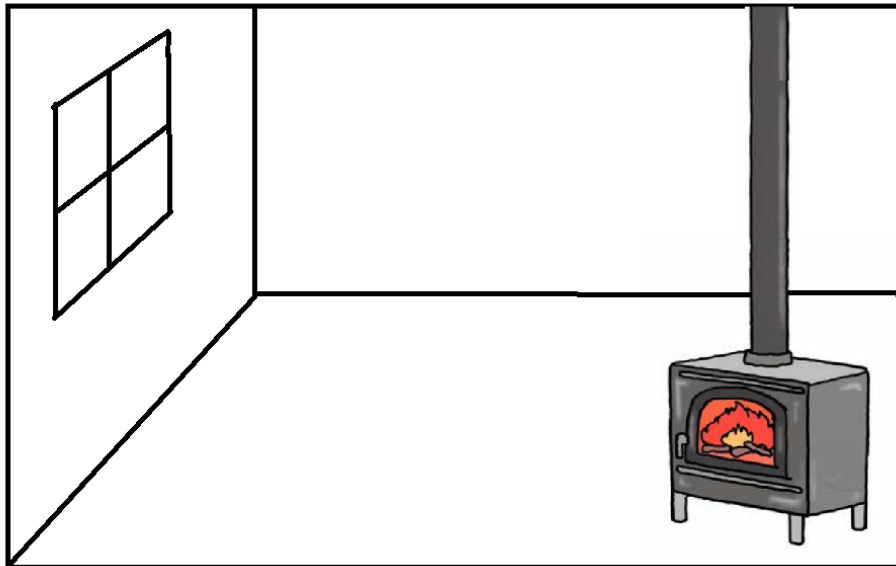


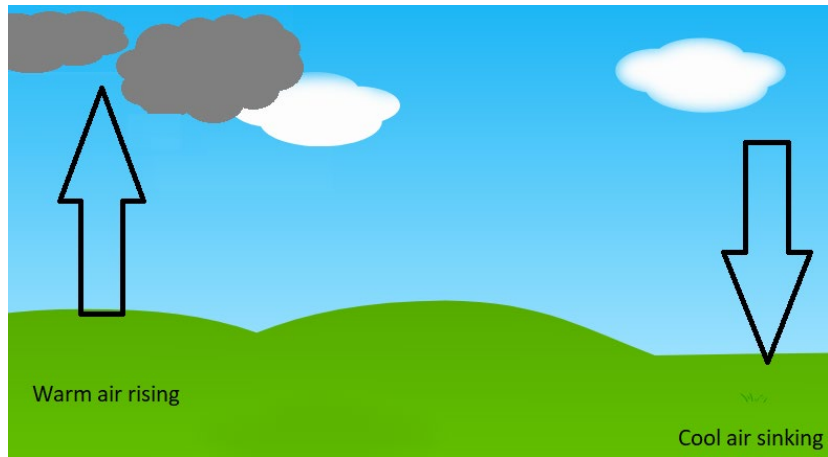
Weather Around the Country

Whether or not you have watched a newscast with a weather segment mostly everyone has looked at a weather forecast at some point to determine if it will be sunny for their weekend plans. Understanding weather systems around you is a great skill to learn even in your daily life!

First, to understand about different pressure systems we need to review convection currents and air movements on a smaller scale. Look at the room diagram below and draw in the convection current from the heat source.



While a baseboard heater or a woodstove may heat a room, it is the sun that heats the Earth. There are many areas of uneven heating on the Earth that drive rising and falling air. When warm air rises, it leaves behind an area of lower pressure. When cool air descends, it creates an area of high pressure. On the next picture, place an appropriate L and H for low and high pressure areas on the map. Be mindful that the horizontal distance between systems can be hundreds or thousands of kilometers across.



Together as a class, observe different parts of Canada on the Environment Canada website. Find cities that are experiencing sunshine and find areas that are experiencing active precipitation to fill out the tables below.

Cities experiencing rain/snow			
City	Temperature	Atmospheric Pressure	Wind Direction and Speed

*Use the satellite feature on Environment Canada. Can you see a rotation direction of the system? Is it clockwise or counter-clockwise?

Cities experiencing sunshine			
City	Temperature	Atmospheric Pressure	Wind Direction and Speed

*Would sunny weather be high pressure or low pressure?