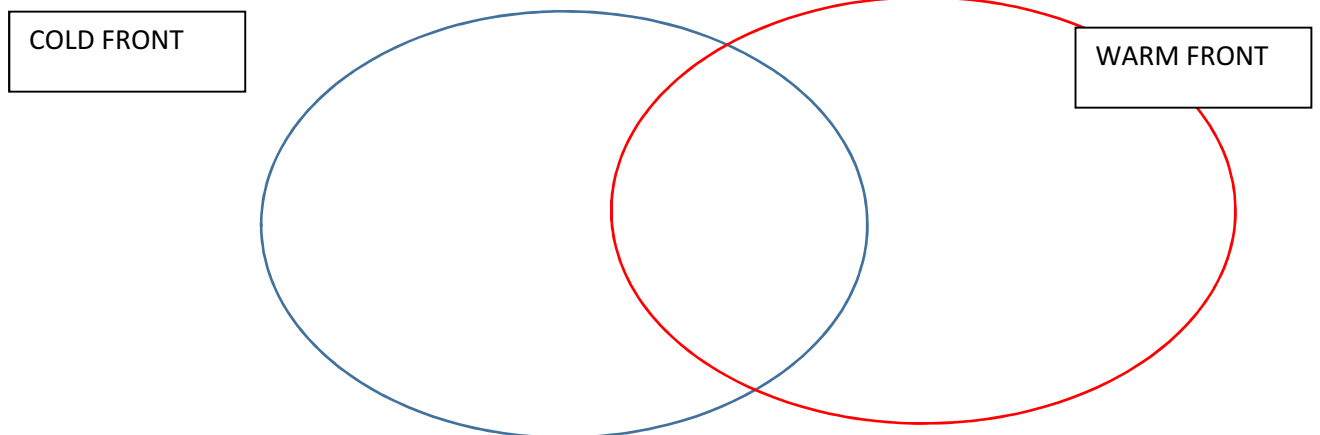Fronts – Activities

1) Sort the following statements about cold and warm fronts into the Thinking Organiser below:
a) Cold and warm air meet
b) Cold air pushes into warm air
c) Warm air pushes into cold air
d) Cold air is below warm air
e) Cloud
f) Rain
g) Thunder and lightning
h) Cirrus cloud
i) Stratus cloud
j) Cumulonimbus cloud
k) Usually move from west to east

COLD FRONT

WARM FRONT

RMetS

2) Add the correct word to the paragraph using only **warm** or **cold**:

_____ and _____ fronts are where two different air masses meet. At a _____ front, cold air is pushing in to warm air. At a _____ front, warm air is pushing in to cold air. _____ air always rises over _____ air. Cloud forms on both _____ and _____ fronts. The weather is usually more extreme on the _____ front, with heavier rain and possibly thunder, hail and lightning. Cirrus cloud is the first sign of a _____ front approaching. Where a _____ front is near the ground, you can expect to see featureless sheets of low, grey stratus cloud from which rain can fall. _____ fronts move faster than _____ fronts, leading to the formation of an occluded front. _____ fronts are marked with a semi-circle, pointing in the direction the front is moving. _____ fronts are marked with a triangle, pointing in the direction the front is moving.

3) True or False?

Statement	True?	False?
Cold air pushes under warm air at a cold front		
The weather is usually worse on the warm front		
Warm air pushes into and over cold air at a warm front		
You get cumulonimbus or thunder clouds on a cold front		
The temperature is colder at a cold front than at a warm front		
Cold fronts are marked by a line with triangles on it		
Cold fronts usually travel from west to east		
Warm fronts move faster than cold fronts		

Rewrite any of the statements that you think are false so they become a true statement.

4) Compare and contrast

Question or statement	Cold front	Warm front
Symbol on a synoptic chart?		
Colour on a synoptic chart?		
Clouds are called…		
Intensity of rainfall?		
The air mass which is pushing in, is …		