**Air Pressure and Winds**

**Air pressure**

1. What happens to the water level in the glass? Why?
2. In Which DIRECTION does the water level go? Why?
3. How does this relate to atmospheric pressure in our ATMOSPHERE?

 **Atmospheric pressure – High Versus Low**
Complete the table as a summary

|  |  |  |
| --- | --- | --- |
|  | High Pressure | Low Pressure |
| Is there more air or less air? |  |  |
| Simple sketch diagram showing what happens |  |  |
| Is the air rising or sinking? |  |  |
| Is the air at the surface moving away from or into the area? |  |  |
| Typical pressure values | Up to 1050 millibars  | Down to 950 millibars |

**Winds and the Coriolis Effect**

What effect do you think our rotating planet might have on the WIND? \_\_\_\_\_\_\_

Answer these questions whilst the video plays

1. What makes air move?
2. Does air blow directly between high and low pressure areas **or** along the pressure contours around these areas?
3. How far would you travel in a day if standing on the Equator?
4. Why don’t we notice this speed?
5. What would happen to you if stood at the North Pole?
6. What happens if air moves from the Equator Northwards?
7. Which way is air deflected in the Northern Hemisphere?

**Skills Exercise**

1. What sort of pressure is found over Northern India and China in January?
2. What is happening to the air there?
3. What sort of pressure is found over Northern India and China in July?
4. What does that mean is happening to the air there in July?

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