

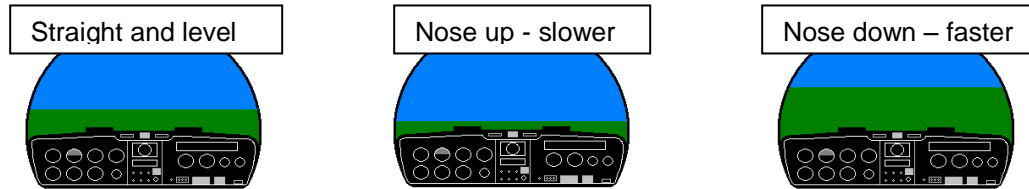
ATTITUDE

WHAT IS MEANT BY ATTITUDE?

We refer to attitude as a way of measuring the aircraft position in terms of angles of nose up/down, angle of bank and direction during flight. We can do this by looking ahead at the horizon through the wind screen.

HOW DO WE CONTROL ATTITUDE?

• CONTROLLING NOSE UP/DOWN ATTITUDE



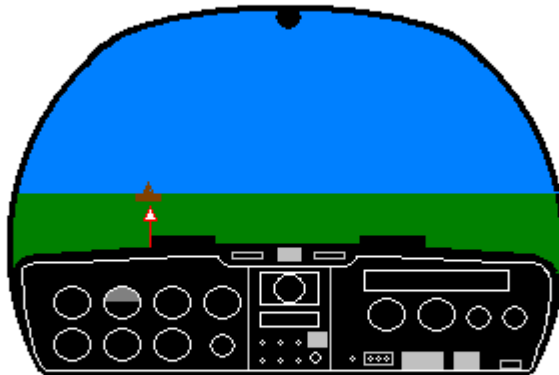
Nose up/down attitude is controlled by forward and aft movement of the control column, operating the elevator. This is also used to control speed. So it is possible to select a new attitude and change the speed of the aircraft. Learning where to position the horizon will enable a pilot to select and hold the correct speed for climbing, level flight and descent.

• CONTROLLING ANGLE OF BANK



Bank attitude is controlled by left and right movement of the control column operating the ailerons. So using the ailerons the aircraft can be kept wings level, when the horizon is level through the wind screen. It can also be banked and kept at different banked attitudes. The foot pedals control the rudder which balances the aircraft in conjunction with the other controls.

• DIRECTION CONTROL



Aiming Point

It is also possible to look at attitude in relation to an object in the distance and co-ordinate the controls to fly straight towards it. From the left seat of a Vigilant the aiming reference for straight ahead is the left edge of the speaker box on the dash board.