





## <section-header><list-item><list-item><list-item><list-item><list-item><list-item>







## 3. Colour - magnitude diagrams of star clusters

- Stars in cluster formed from same gas cloud at approx. same time.
- Hence appearance of C-M diagram reflects <u>age</u> of cluster
- e.g after 10<sup>8</sup> yrs,
  - M > 8  $M_{sun}$  stars evolved to end states
  - M ~ 5  $M_{Sun}$  stars are core He fusion red /
    - yellow supergiants (Classical Cepheid variables)
  - M < 5  $M_{sun}$  stars still on m-s

AS 2001

Stellar Structure and Evolution















