



- 1.▲ Seed absorbs water and swells △  
▼ Seed-root emerges and follows gravity▽
- 2.▲ Shoot penetrates through soil, towards the light △  
▼ Secondary main roots develop▽
- 3.▲ Seed-leaves (Cotyledons) open and shoot continues △  
▼ Taproot and main roots develop▽
- 4.▲ Stem and Mature / true leaves develop △  
▼ Roots penetrate soil to maximum extent▽
5. ▲ Budding and maximum leaf surface area △  
▼ Fibrous roots colonise full volume of soil and ▽  
▼ Rhizo-sphere develops (mycorrhizal association) ▽
6. ▲ Flowering and Pollination △  
▼ Maximum flow of nutrients from soil▽
7. ▲ Fruit and seed formation △  
▼ Available soil nutrients exhausted▽
8. ▲ Leaf-fall and die-back –△  
▲Nutrients diverted to ripening fruit△  
▼ Seed matures and is distributed▽  
▼ Perennial roots store / conserve for next year▽

Learner Sig.

Date

Assessor Sig.