



This same process initiated by ethylene...

| ...occurring in a... | ...causes... |
|-----------------------|---------------------|
| ...layer in a pedicel | ...fruit abscission |
| ...leaf blade | ...leaf senescence |
| ...layer in a petiole | ...leaf abscission |

Since a carpel (ovary) is really a leaf...these parallel developmental events make a lot of common sense.

The Three Fundamental Parts...

...of a Seed

...of an Embryo

- 1. Seed Coat**
- 2. Embryo**
- 3. Storage Tissue**



- 1. Leaf**
- 2. Stem**
- 3. Root**

These functions....

...occur in this part of the embryo

| | |
|----------------------------------|------------------|
| Growth of the shoot | Shoot apex |
| Photosynthesis and Storage | Cotyledon (leaf) |
| Lifting the shoot above the soil | Hypocotyl (stem) |
| Producing lateral roots | Radicle (root) |
| Penetrating the soil | Root apex |