

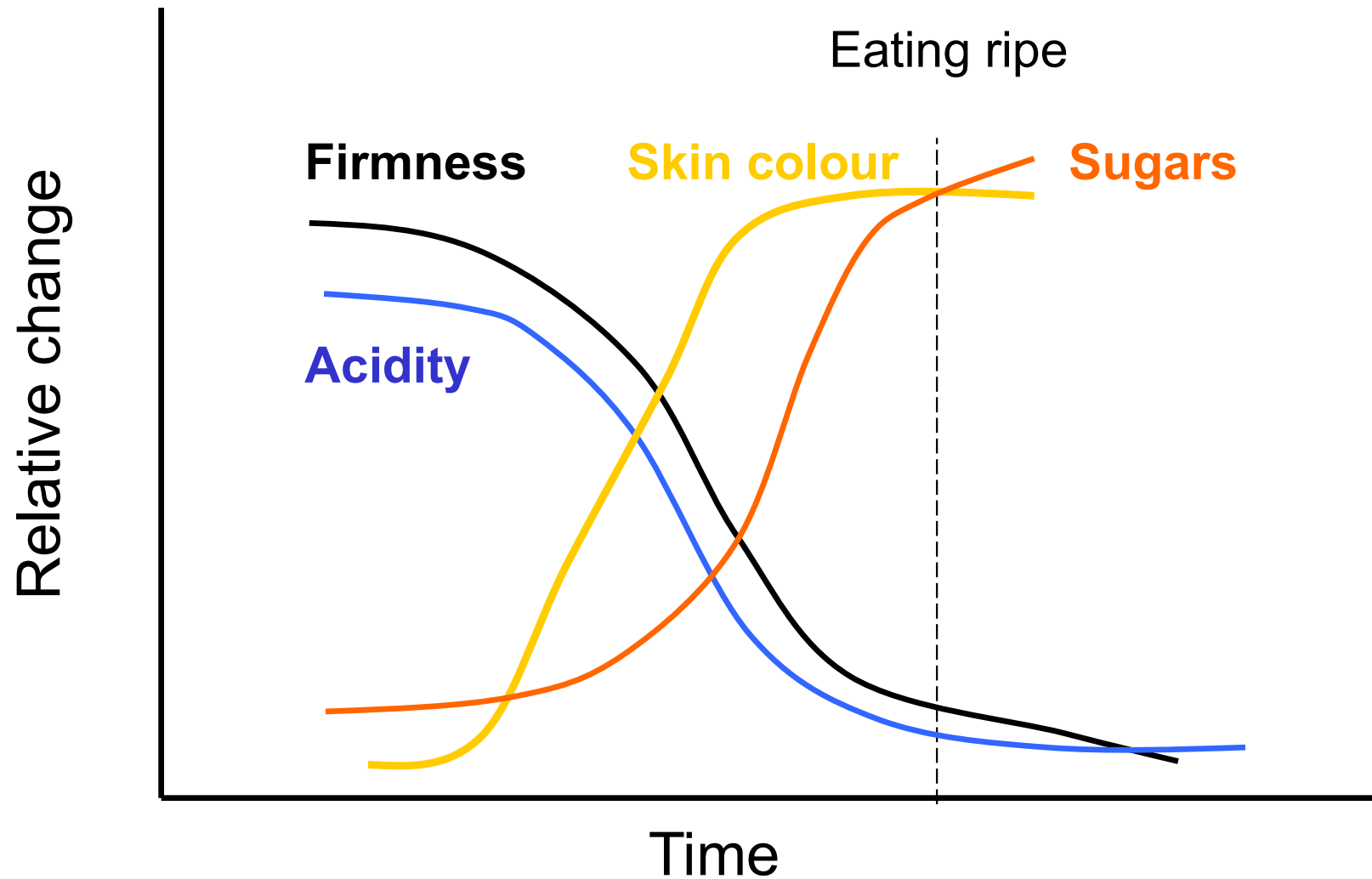
What happens when a mango ripens



Training for supply chain members

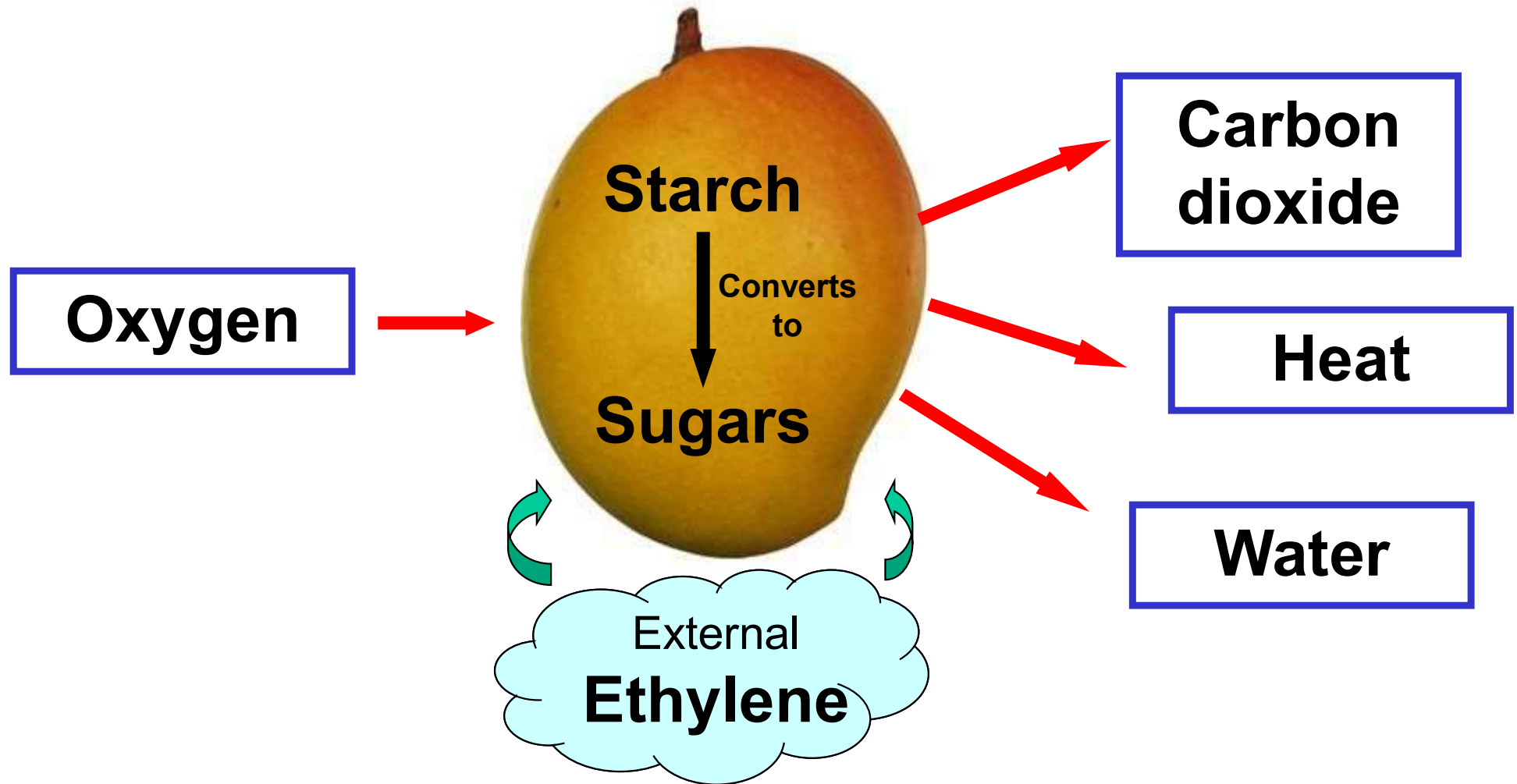
Jodie Campbell, Scott Ledger, Terry Campbell, Leigh Barker

What changes occur after harvest?

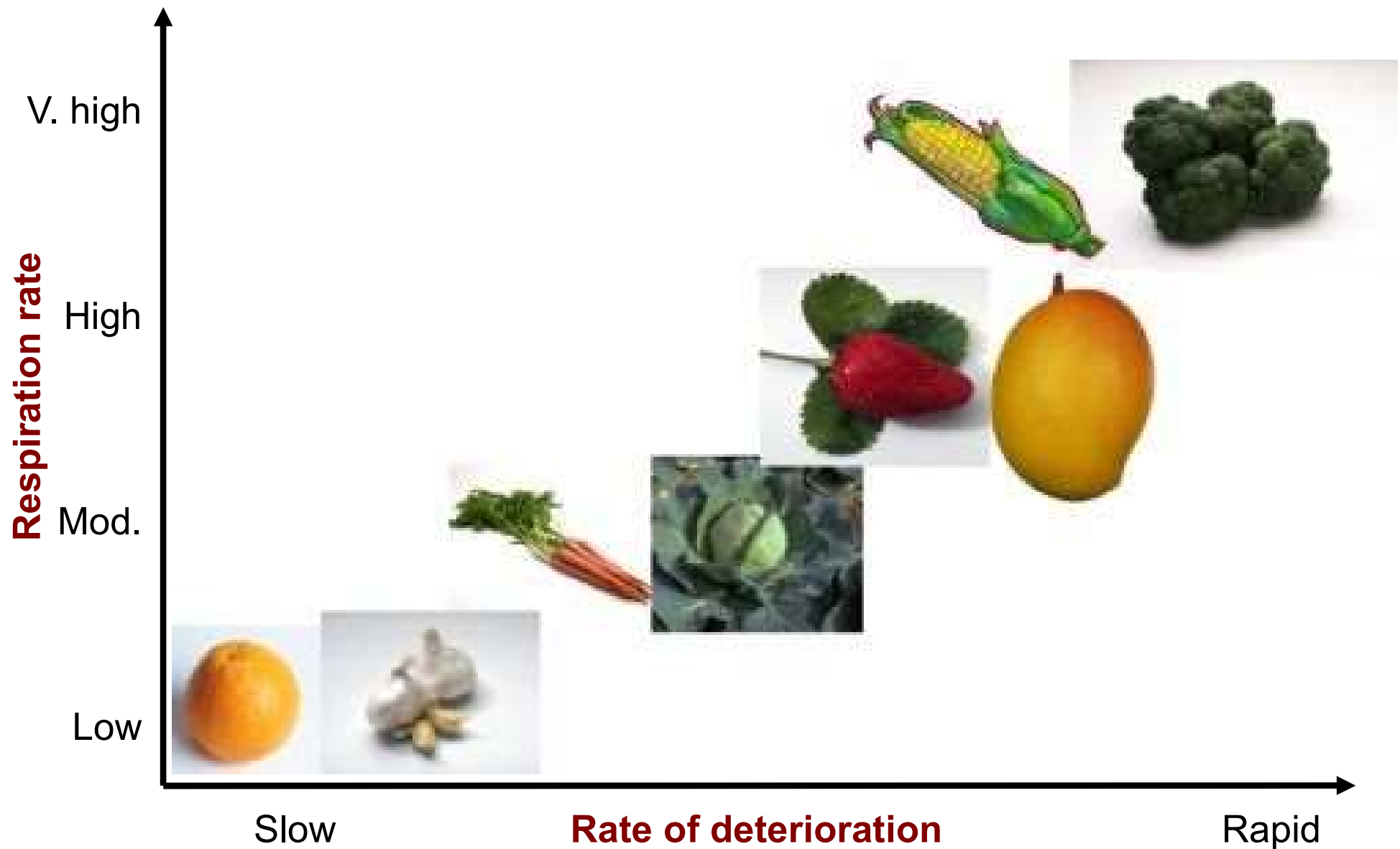


Respiration – an important process

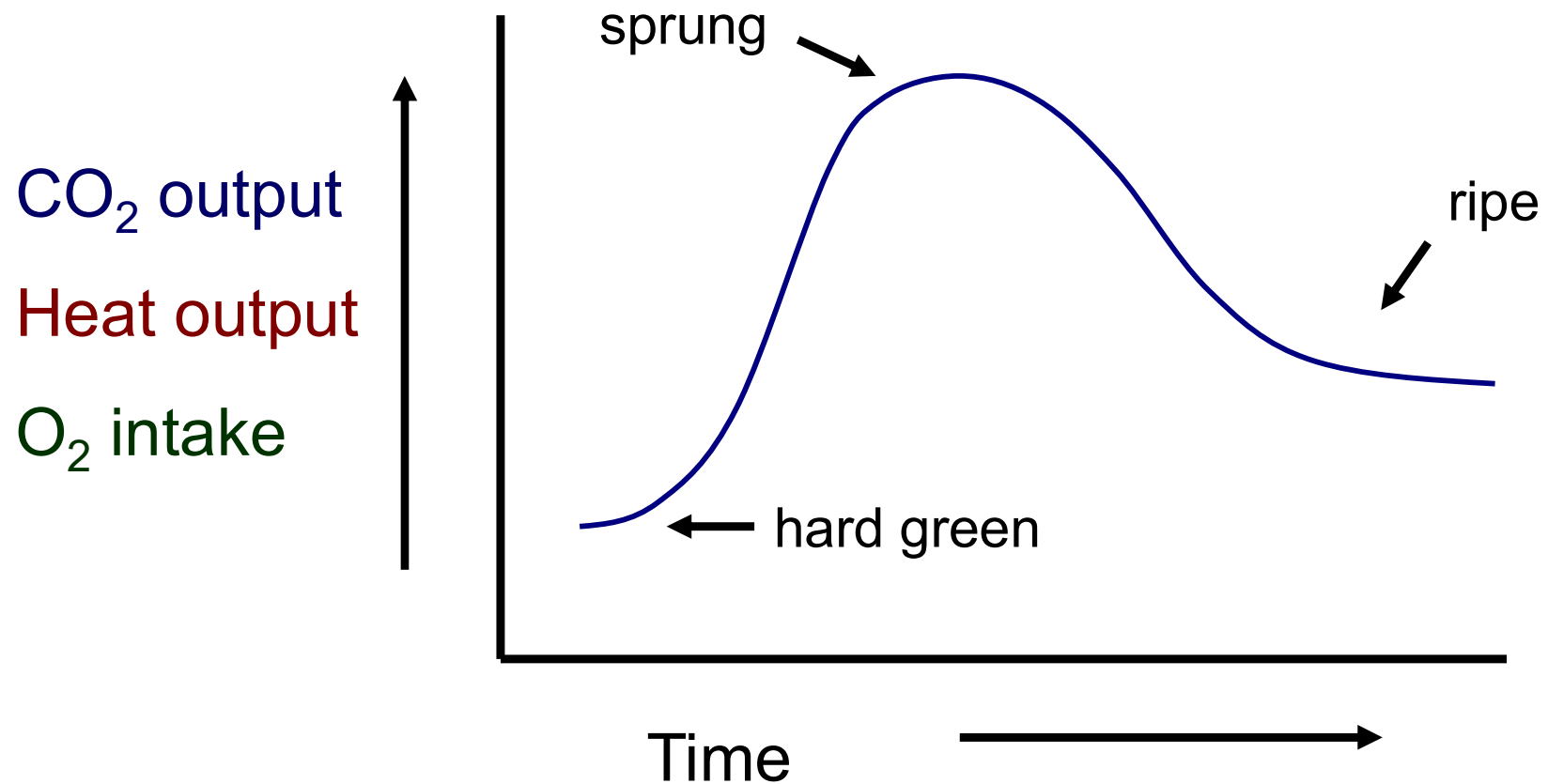
Fruit is still alive



Respiration rate varies with produce

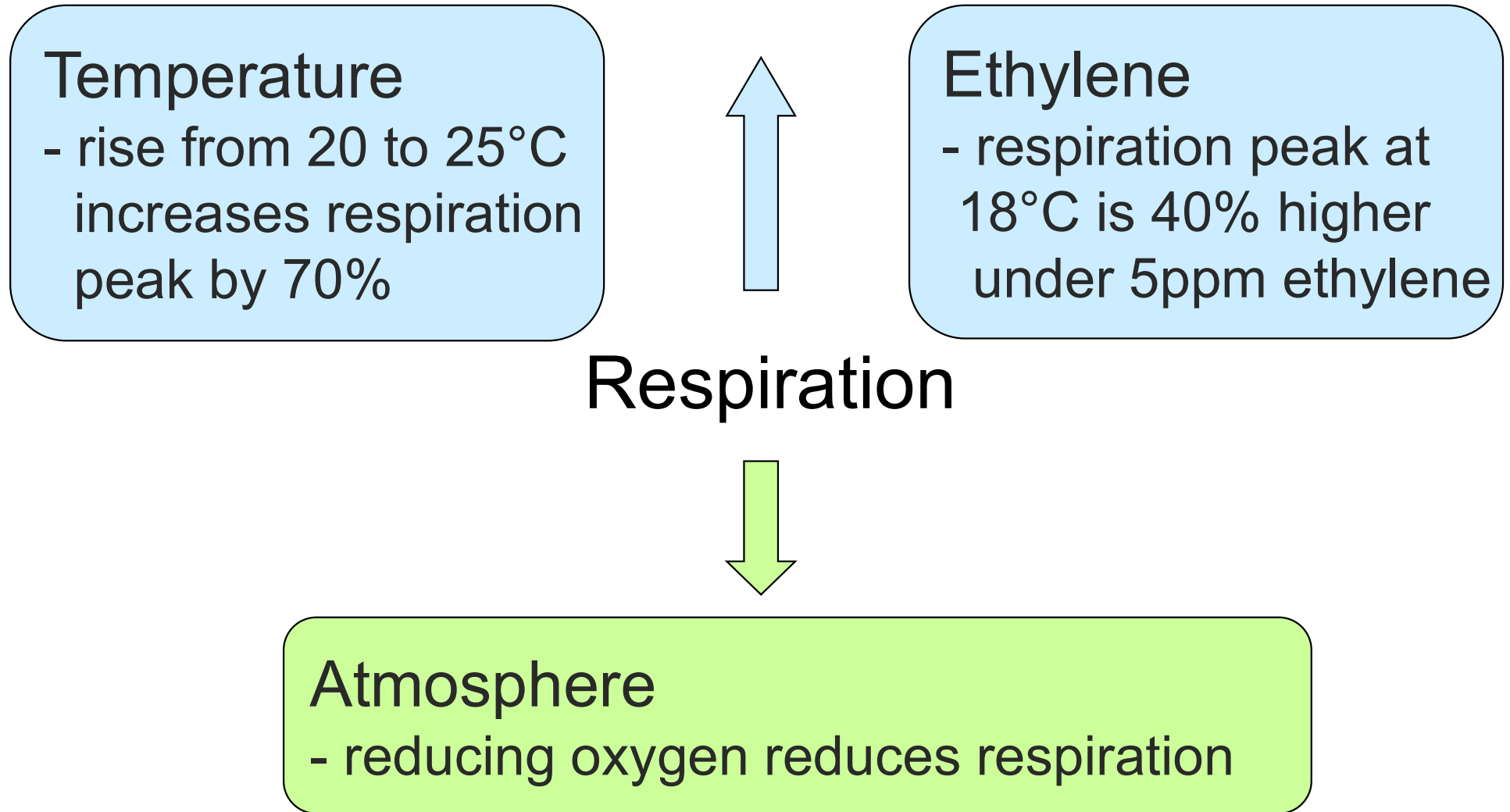


Respiration rises during ripening

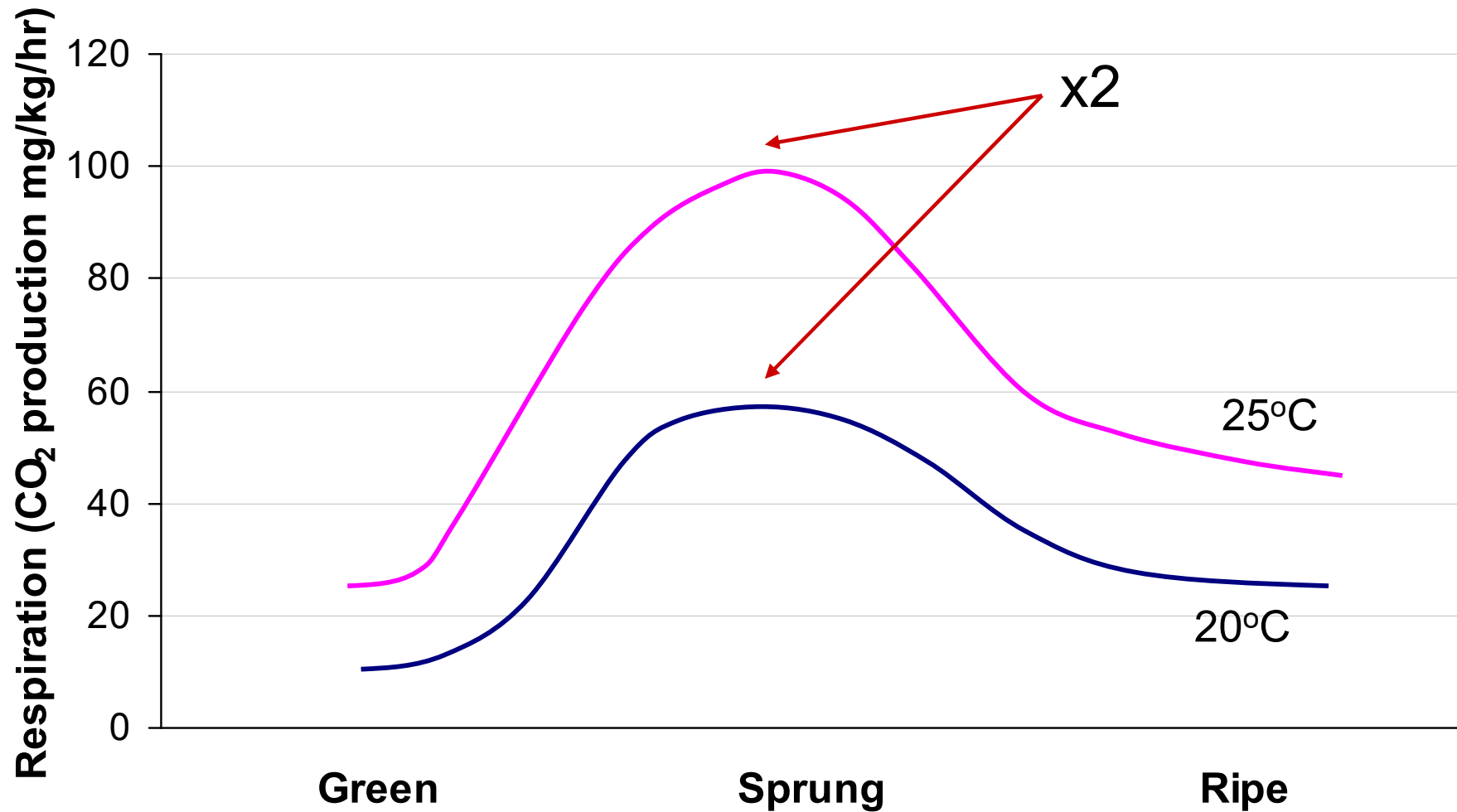


Respiration rises as mango ripens to sprung stage and then falls

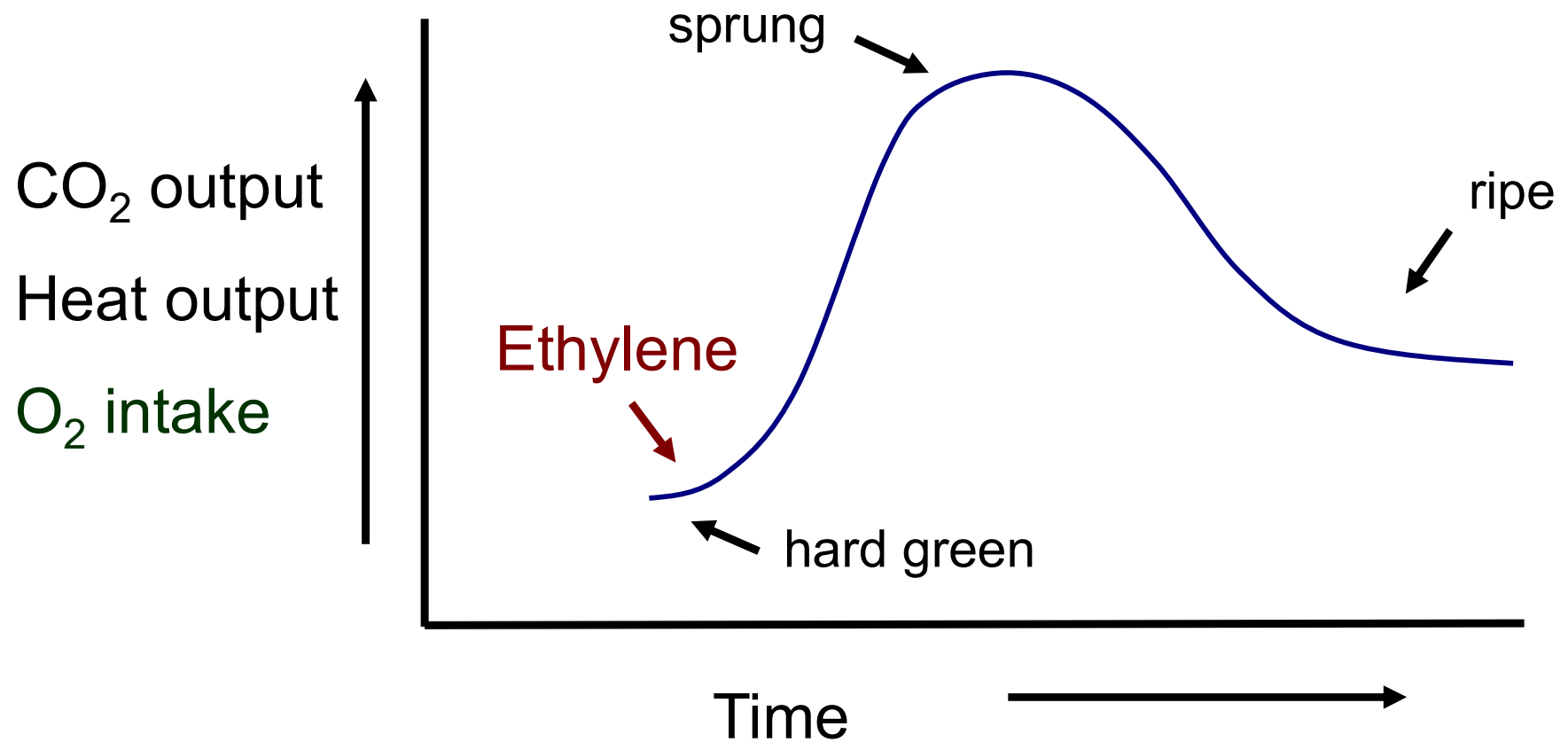
What affects respiration?



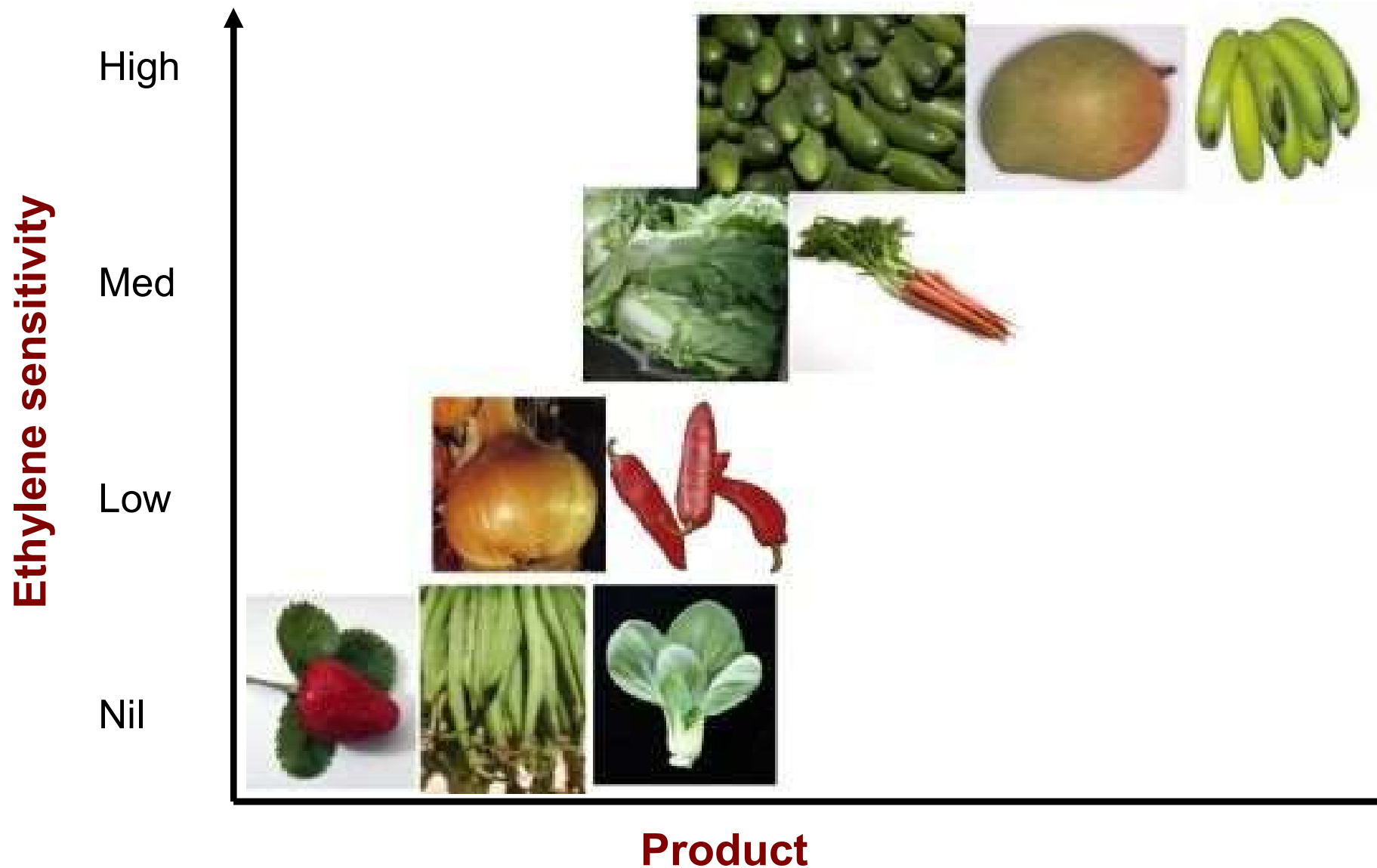
Temperature affects respiration



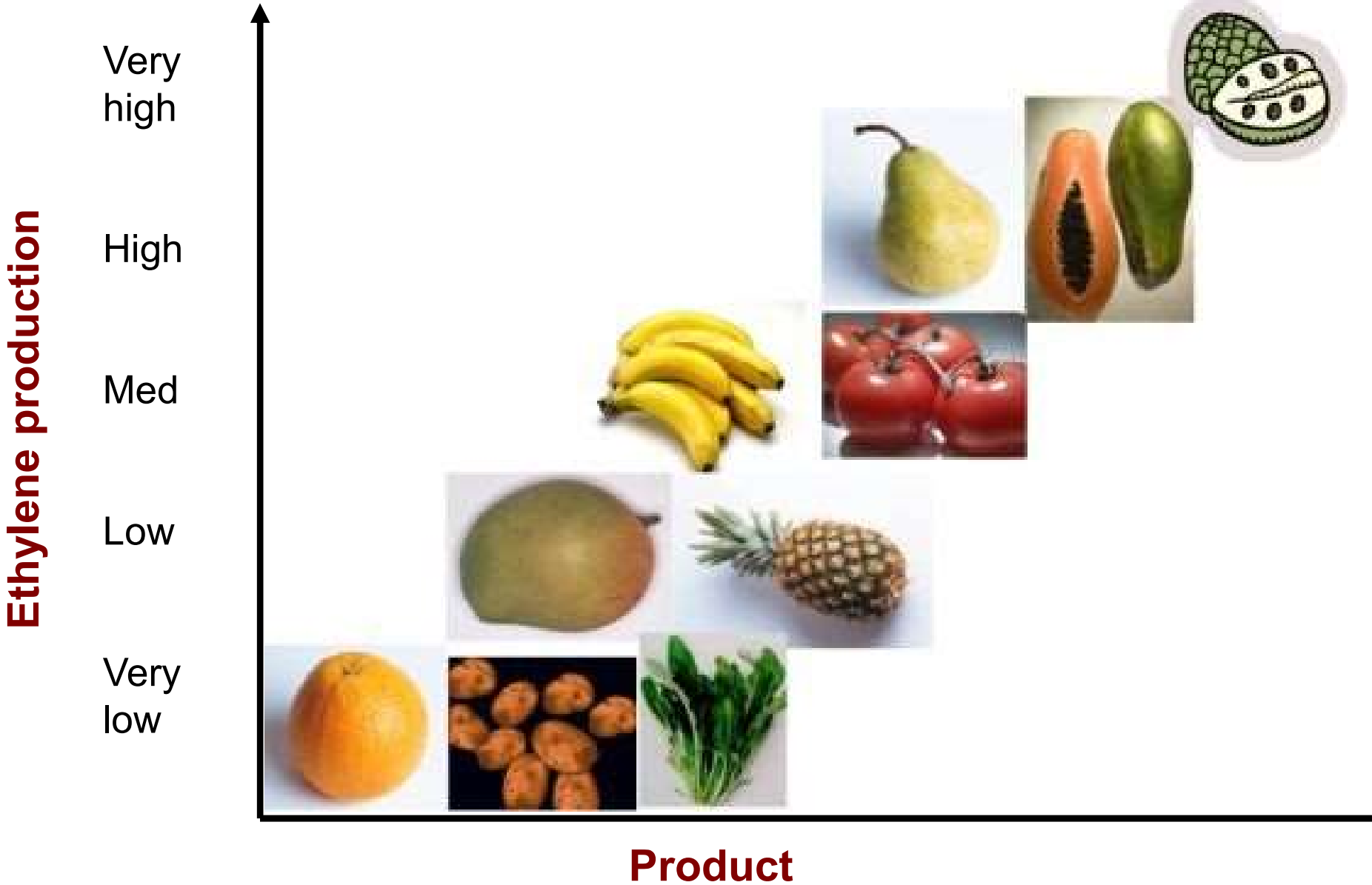
Ethylene triggers ripening and rise in respiration



Ethylene sensitivity



Ethylene production



Ethylene improves ripening uniformity

No ethylene 7 days 20°C



Ethylene 2 days + 5 days 20°C

High CO₂ reduces skin yellowing

Air



4.5% CO₂



Ethylene for 2 days at 20°C and then 3 days in air or CO₂