

## GROWTH & POWER FUNCTIONS



The LSD experiment

---

---

---

---

---

---

## SCALING PRINCIPLES

properties can change with size

proportions (relative and absolute)

---

---

---

---

---

---

## POWER FUNCTIONS

$$Y = a X^b$$

properties X and Y

parameters a and b

formulate and test hypotheses

e.g., cube:  $H = 1.0 L^{1.0} = W$

$$S = 6.0 L^{2.0}$$

$$V = 1.0 L^{3.0}$$

S-V ratios

---

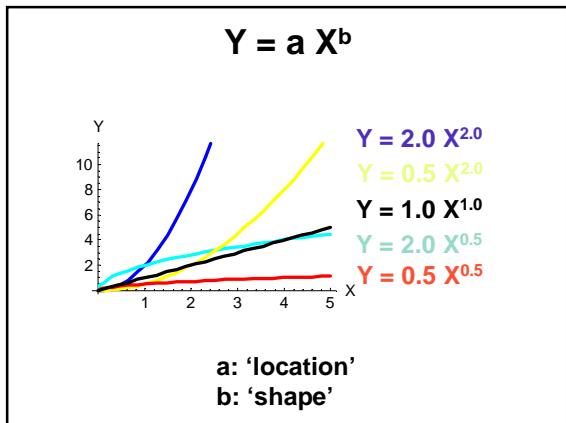
---

---

---

---

---




---



---



---



---



---



---



---



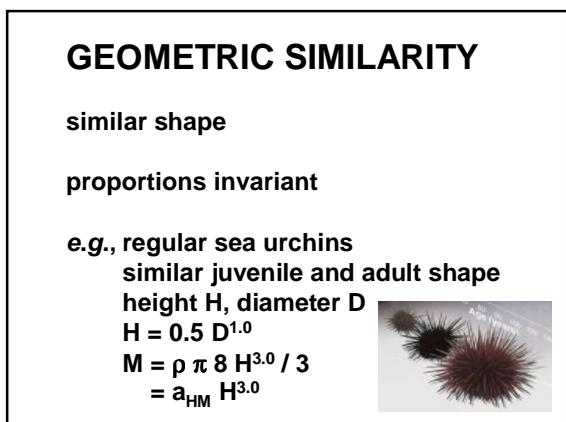
---



---



---




---



---



---



---



---



---



---



---



---



---