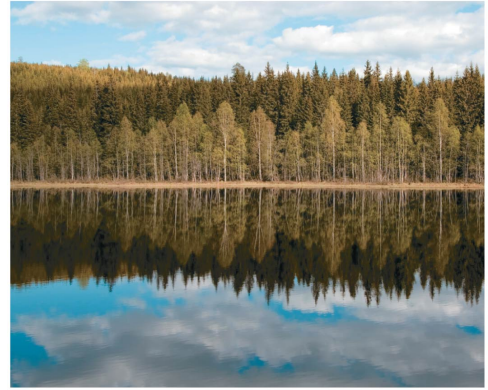


A grassland in Mongolia

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A coniferous forest in Norway

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A temperate broadleaf forest in New Jersey

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Dovrefjell National Park, Norway

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A basin wetland in the United Kingdom

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17



An oligotrophic lake in Alberta, Canada

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18



A headwater stream in Washington



A rocky intertidal zone on the Oregon coast



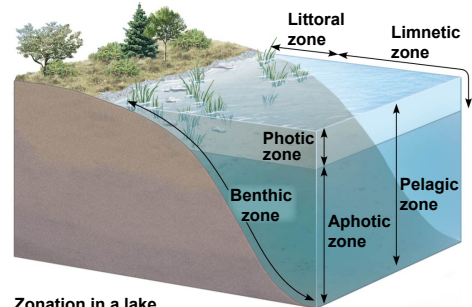
A coral reef in the Red Sea



Open ocean near Iceland



A deep-sea hydrothermal vent community



Zonation in a lake

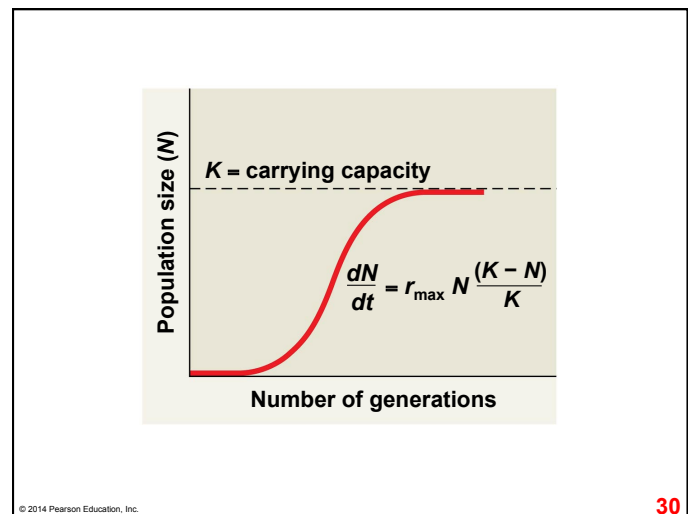
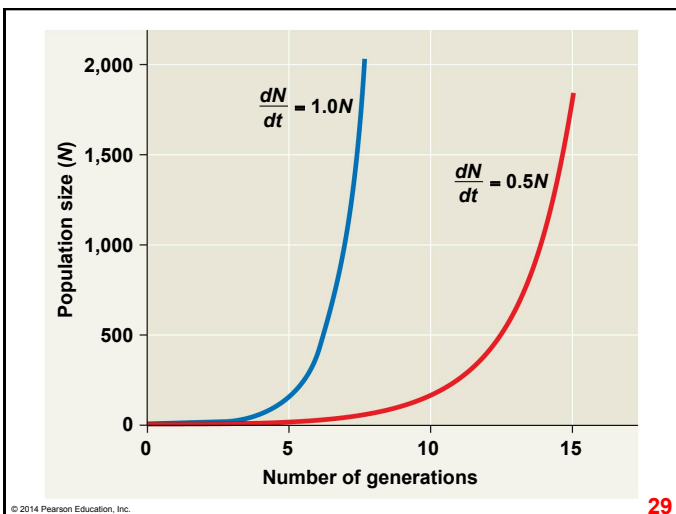
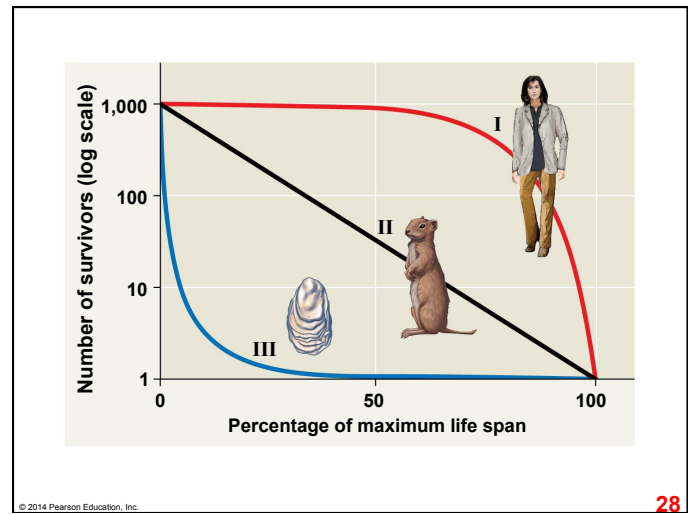
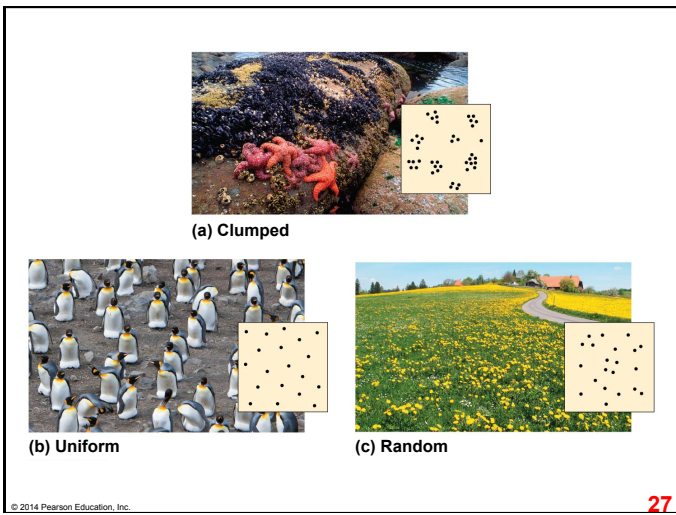
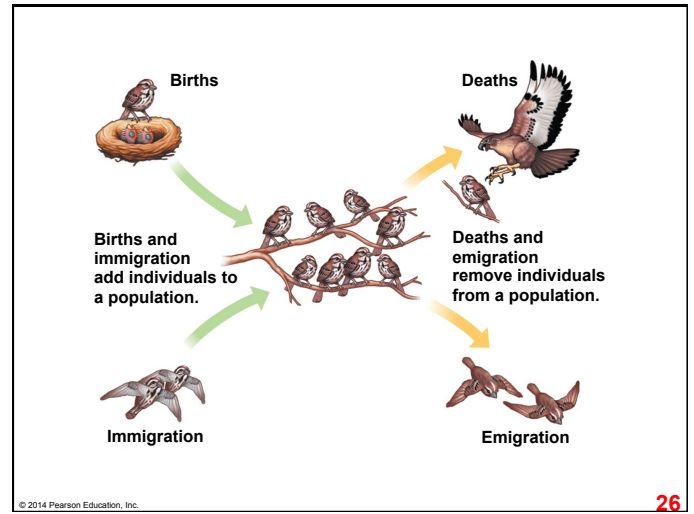
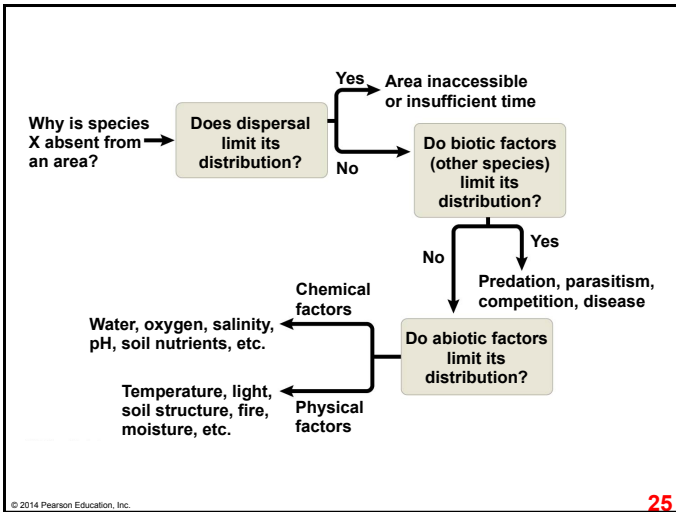
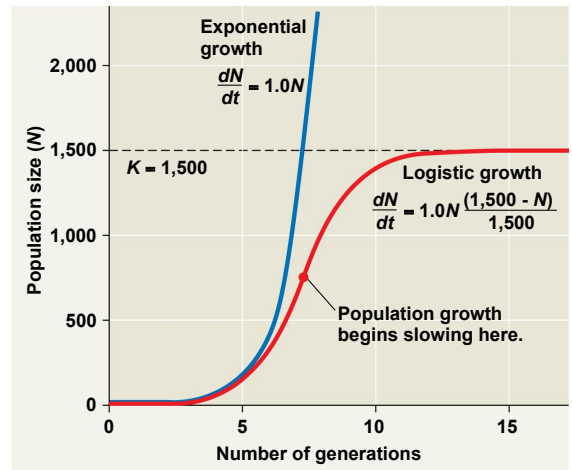


Table 40.2 Logistic Growth of a Hypothetical Population ($K = 1,500$)

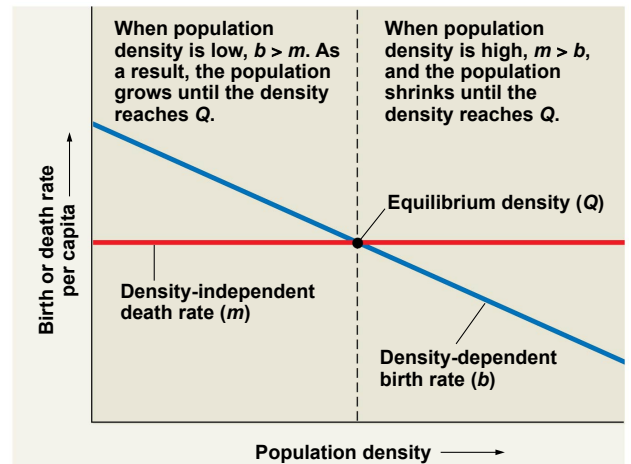
Population Size (N)	Maximum Rate of Increase (r_{max})	$\frac{K - N}{K}$	Per Capita Rate of Increase $\frac{(K - N)}{K}$ $r_{max} \frac{(K - N)}{K}$	Population Growth Rate* $r_{max} N \frac{(K - N)}{K}$
25	1.0	0.98	0.98	+ 25
100	1.0	0.93	0.93	+ 93
250	1.0	0.83	0.83	+ 208
500	1.0	0.67	0.67	+ 333
750	1.0	0.50	0.50	+ 375
1,000	1.0	0.33	0.33	+ 333
1,500	1.0	0.00	0.00	0

*Rounded to the nearest whole number.



Dandelions grow quickly and release a large number of tiny fruits.

The Brazil nut tree (above), produces a moderate number of large seeds in pods (left).



Competition for resources



Predation



Disease



Toxic wastes

5 μ m



Territoriality



Intrinsic factors

