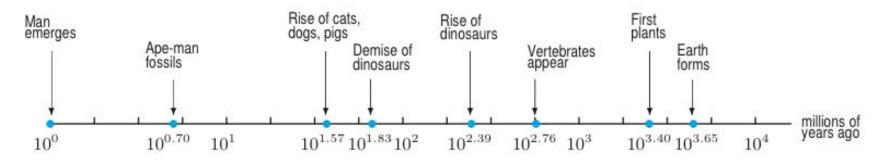
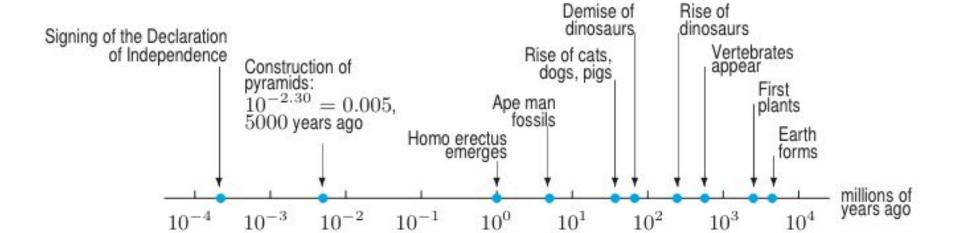
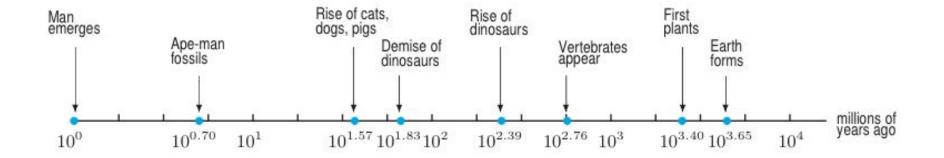
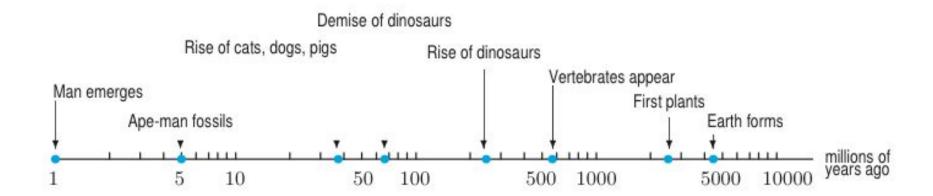
Logarithmic Scale.

Event	Age (millions of years)	log (age)	Event	Age (millions of years)	log (age)
Man emerges	1	0	Rise of dinosaurs	245	2.39
Ape-man fossils	5	0.70	Vertebrates appear	570	2.76
Rise of cats, dogs, pigs	37	1.57	First plants	2500	3.40
Demise of dinosaurs	67	1.83	Earth forms	4450	3.65



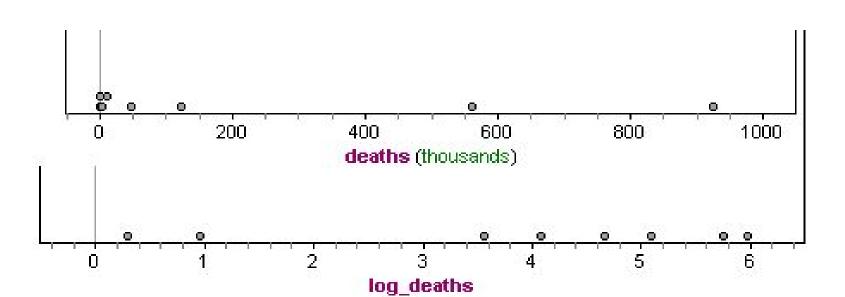






Let's try to plot this data on a logarithmic scale. First notice why it would be helpful to do so...

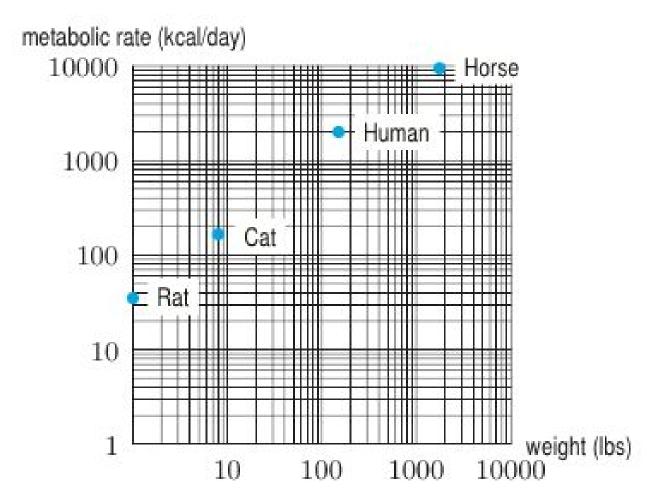
Cause	Deaths	
Scarlet fever	2	
Whooping cough	9	
Asthma	3613	
HIV	12,113	
Kidney diseases	46,095	
Accidents	121,599	
Malignant neoplasms	559,888	
Cardiovascular disease	823,746	



Log-Log graphs

The metabolic rate (in kcal/day) for animals of different weights

Animal	Weight (lbs)	Rate (kcal/day)		
Rat	1	35		
Cat	8	166		
Human	150	2000		
Horse 1750		9470		



Semi-Log graphs

Here are some data from bounce tests of a softball dropped from a height of 10 feet.

Bounce Number	1	2	3	4	5
Rebound Height	3.8	1.5	0.6	0.2	0.05