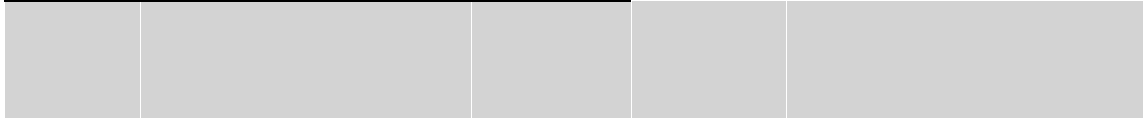


1	Multiple Choice	8.3.8.8.B	1	B
2	Multiple Choice	8.4.7.12.F	1	B
3	Multiple Choice	8.1.6.6.B	1	D
4	Multiple Choice	8.4.8.11.B	1	B
5	Multiple Choice	8.1.8.5.E	1	D
6	Multiple Choice	8.3.8.10.C	1	A
7	Text Entry	8.1.7.5.B	1	5 See Appendix 1.1
8	Multiple Choice	8.2.6.8.D	1	C
9	Multiple Choice	8.3.8.7.A	1	D

number of protons f\* 33.8.7.408.91 133.46 0.4

10 Drag and Drop 8.1.8.5.B 2

25	Short Constructed Response	8.4.8.11.A	2	See Appendix 1.6
26	Multiple Select	8.2.8.6.C	2	A, D See Appendix 1.7



A student researches an ecosystem and draws the food web shown.

Food web? How many secondary consumers are in this food web?

0

Describe the roles of subatomic particles within an atom.

Move the correct answer to each box. Not all answers will be used.

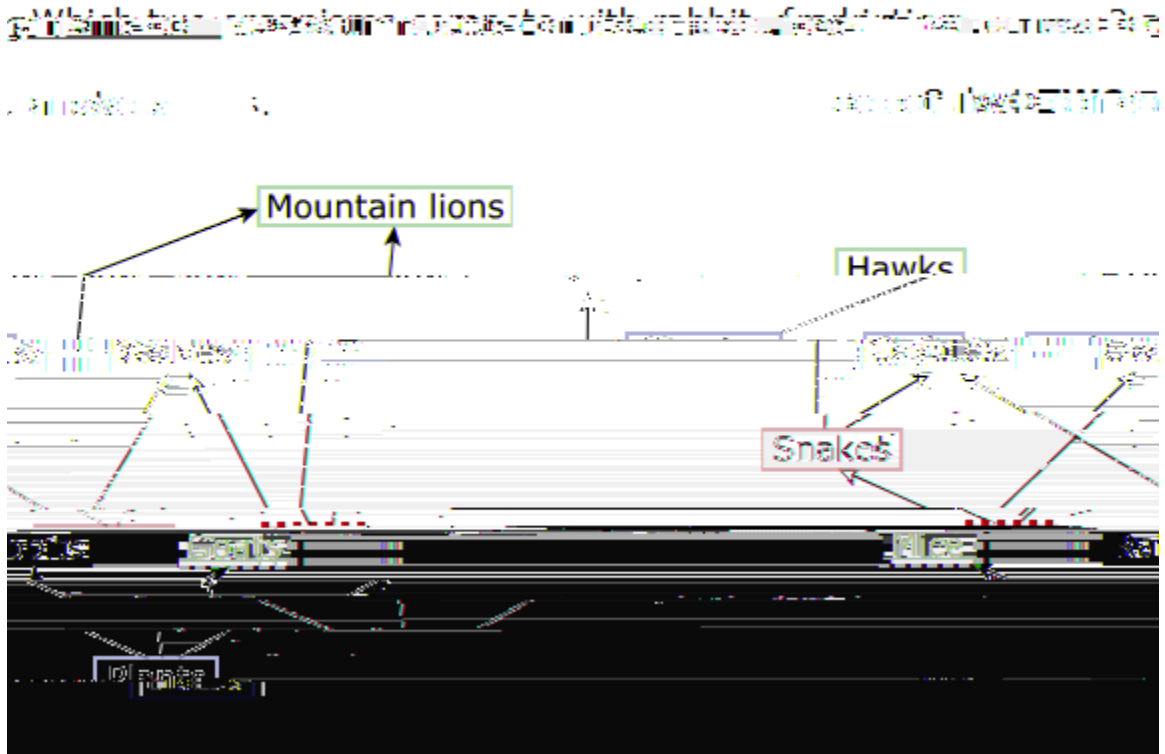
- number of protons
- number of neutrons
- number of electrons

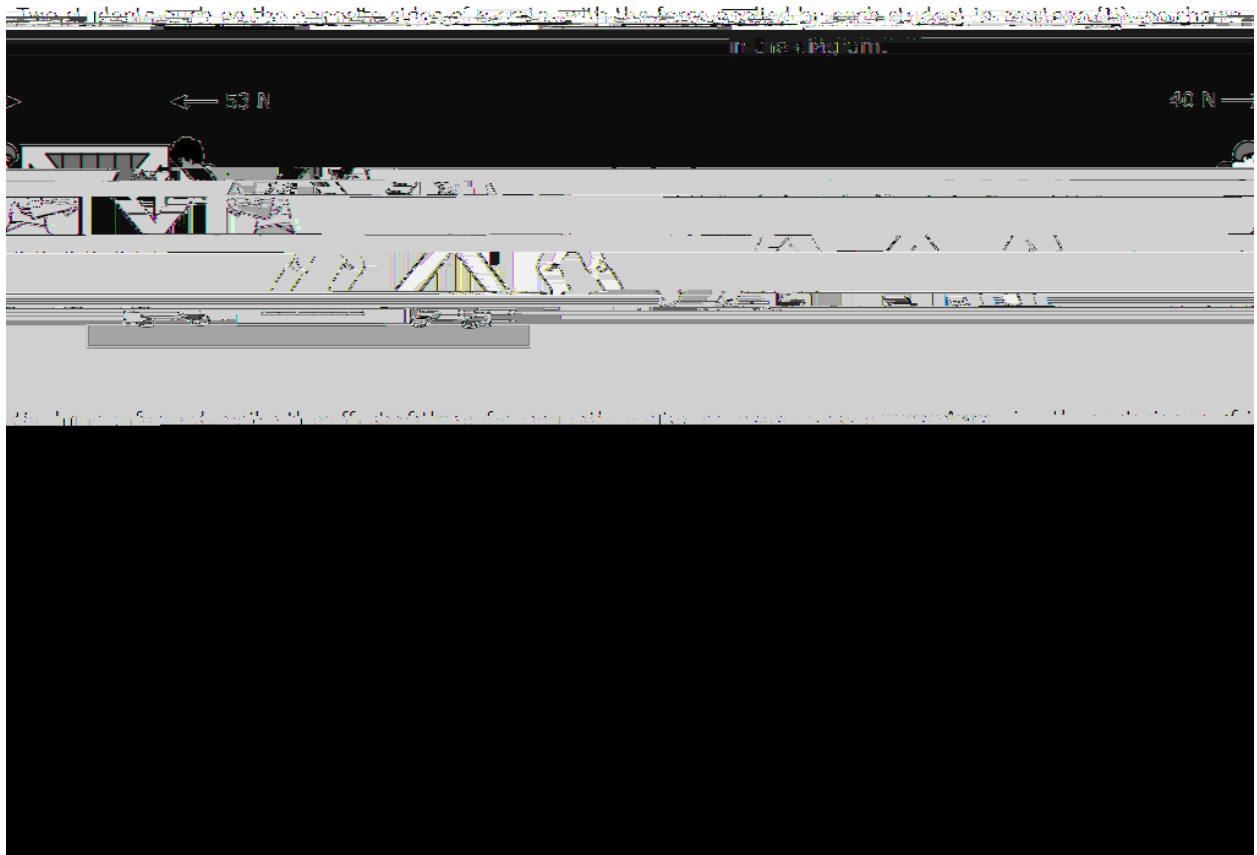
- number
- number
- number

number of valence electrons

The number of electrons determines the identity of an atom and is equal to the number of protons. The number of valence electrons determines the chemical reactivity of an atom. The number of valence electrons determines the chemical reactivity of an atom.

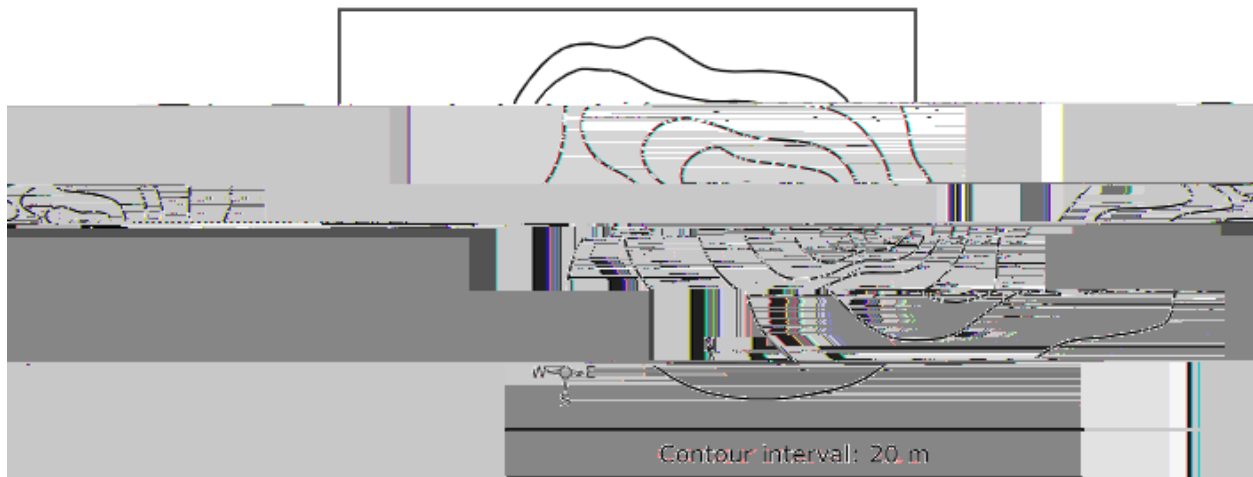
A partial food web is shown.





The student describes both of the following:  
The crate will move to the left.  
The net force on the crate is 13 N left.

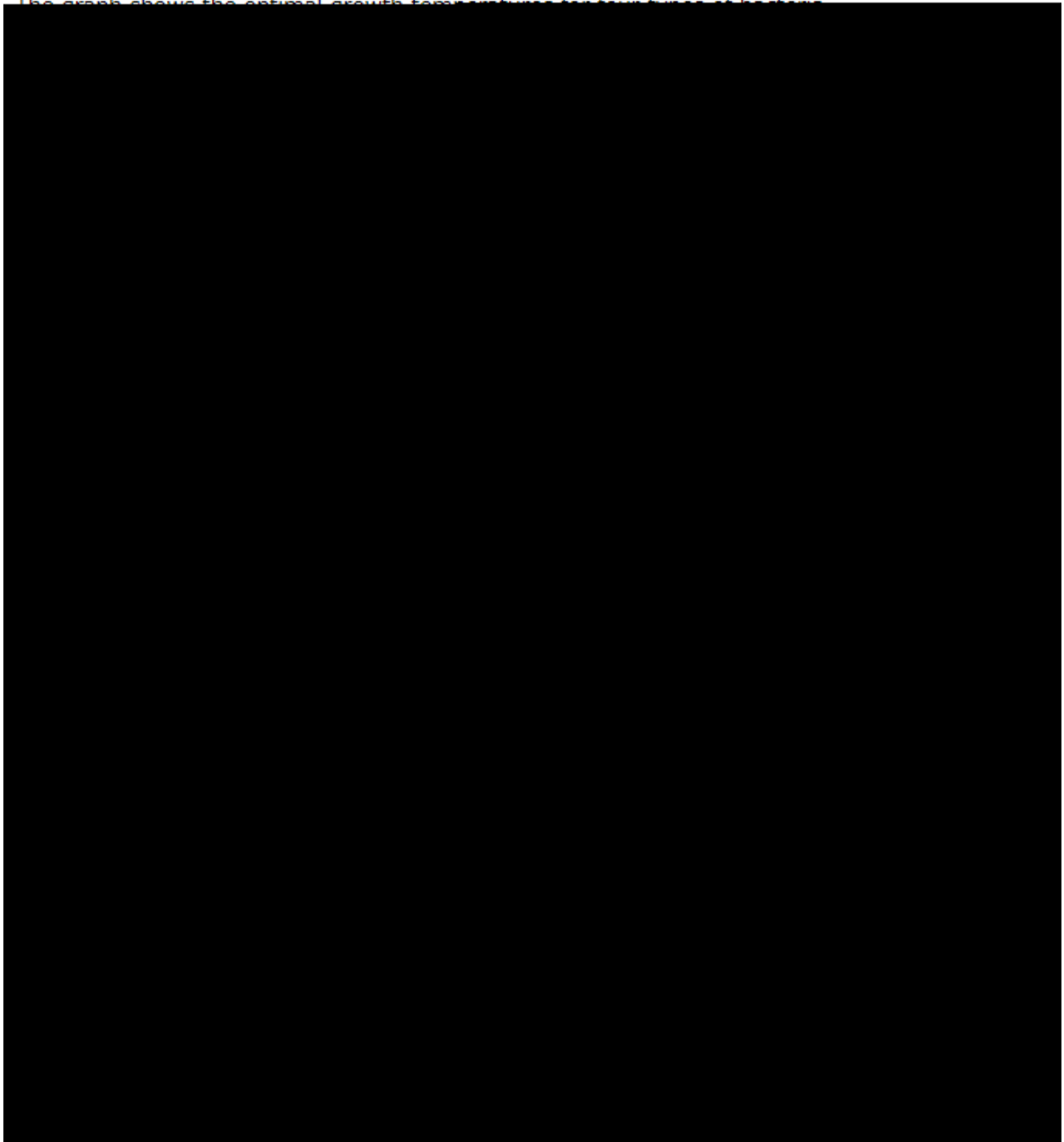
A topographic map is shown.



Select **TWO** correct answers.

- There is a stream.
- There is a large valley.
- There is a consistent slope.
- There is one peak.

The graph shows the optimal growth temperatures for four types of bacteria.



The student addresses both of the following:

Psychrophiles would be found farthest from the vent because their temperature tolerance range is the lowest.

Thermophiles and hyperthermophiles will compete the most with one another because their temperature tolerance ranges overlap the most.

on the car when it was speeding up? Which data points can be used to calculate the net force that was acting

The car's speed increased for 7 seconds.

The car started from rest.

The car's speed was 100 m/s at the end of the race.

The car traveled a total of 200 m.