NICE GENES!

a podcast by

Genome British Columbia

learn-a-long

Scan the QR code to listen as you learn about the wild world of genomics.

Each episode includes a free learn-a-long resource for you to follow and colour along with at home, in school or on the go!

Season 3

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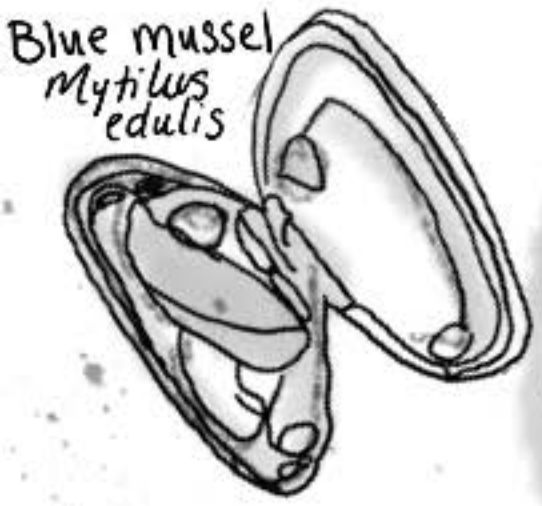
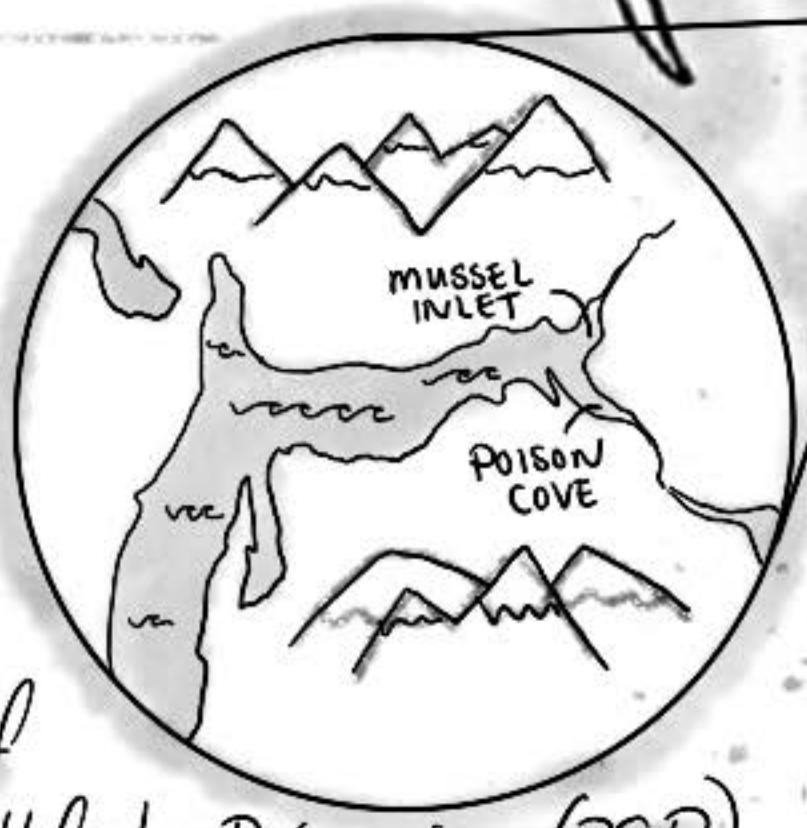
bitly

episode V

THE DOSE MAKES THE POISON

Explain how saxitoxin can be relatively harmless in sea water, but deadly in mussels





List three symptoms of Paralytic Shellfish Poisoning (PSP)

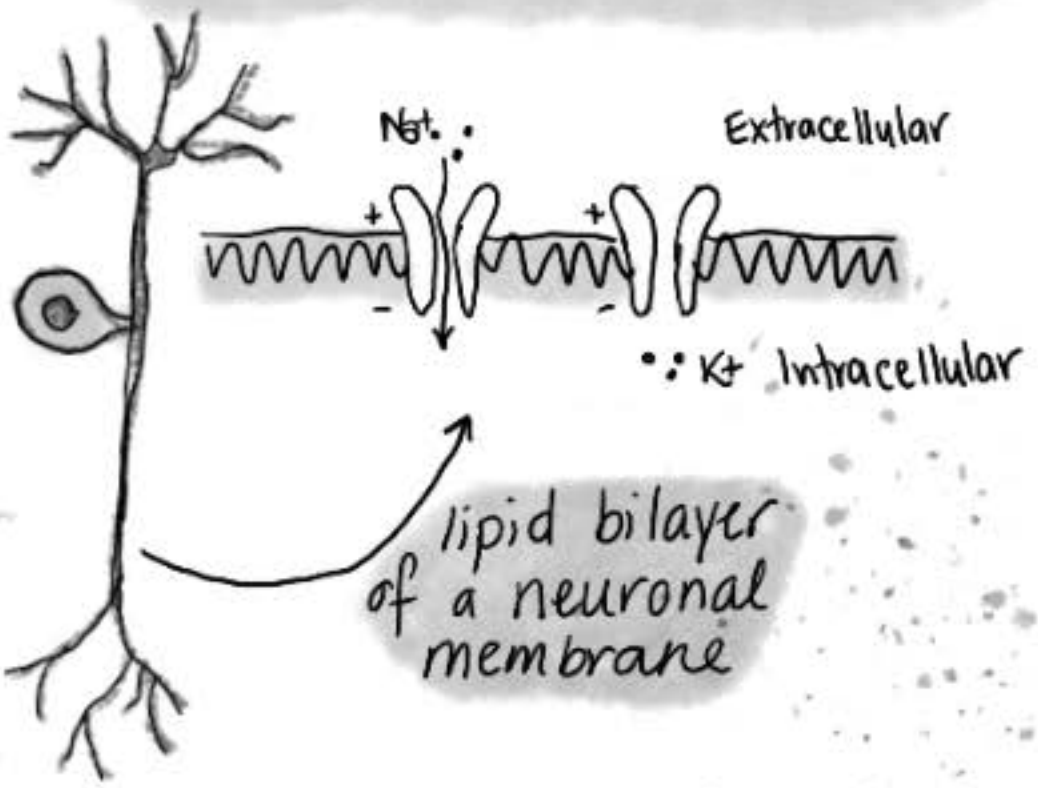
1.

2.

3.

How can you check if seafood is safe to eat?

How would the saxitoxin that causes PSP affect this diagram of a neuronal membrane? Draw and describe.



which of Paracelsus' statements turned out the least sus?

a. "Dreams must be heated and accepted, for a great many of them come true"

b. "The most secure method to ruin your health is a sick bed"

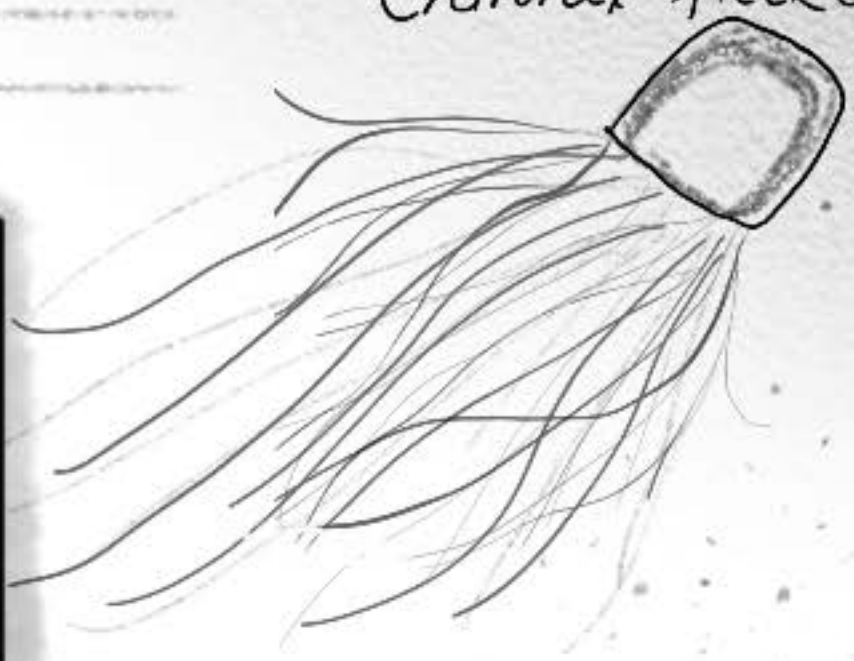
c. "The dose makes the poison"

Name a common substance that is very safe to consume, but can be deadly in large quantities? Bonus: draw the chemical structure!

Learn more about the phyllum Cnidaria in season 1, episode 3 of Nice Genes!

Moon Jelly
Aurelia aurita

Australian Box Jelly
Chironex fleckeri



80
Hg
Mercury
200.59

How was the Oregon Trail mapped after the fact using a toxin?

atomic number

33
AS
Arsenic
74.92

atomic mass

calculate the number of neutrons(n) in Arsenic

#n = atomic mass - atomic#

Did you know?

The incident with the arsenic in the candy led to the Pharmacy Act, which stated that 1) records must be kept for all sales of arsenic 2) the seller had to know the buyer and 3) arsenic had to be coloured

Poly
Fluoro
Alkyl
Substances

Why are PFAS used in products?

What are the drawbacks?

What nickname is given to PFAS how long they persist in the environment?

Explain the precautionary priciple: