

- The transfer RNA carries _____ the ribosomal complex during translation of the _____s.
- The tRNA contains an anticodon _____ correspondingly binds to a codon that is found in _____
- In all nucleic acids (i.e. _____), the directionality of 3' to 5' and or 5' to _____

STEM CONNECT

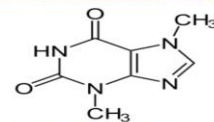
Why are Chocolates Bad for Dogs?













Your favorite treat could be lethal to your best friend - chocolate. Chocolate has been _____ long-standing delicacies being _____ as early as 1900 B.C.

Despite _____ that it brings to people with _____, excessive intake of chocolate _____ development of dental _____ obesity. Moreover,

consumption _____ has been shown to cause death to dogs.

The _____ compound called theobromine that is obtained from roasting seeds of *Theobroma cacao* during the preparation of chocolate. Aside from theobromine, another methylxanthine alkaloid present in chocolate is caffeine. Theobromine targets the nervous, circulatory and respiratory systems and is excreted



through the urine. In dogs, theobromine poisoning is characterized by vomiting,  ty, fast heart beat (tachycardia), excessive  muscle twitching. As theobromine is metabolized  t can be observed 12 to 30 hours post ingestion.  s elimination within the system is also slow, as  hours before half of the amount of the ingested  be reduced to half of its initial concentration.  se of theobromine is reported to be 100-500 mg/kg  body weight. Different types of chocolates contain  s of this compound, with cocoa powder and plain  having the highest concentration (20 and 15  ly), milk chocolate (2mg/g) and white chocolate  ce a 10-kg dog could suffer from theobromine toxicosis by ingestion of 100 g of plain chocolate, while white chocolate will be safer. With all of these things in mind, the best way is to keep our best friend's paws away from chocolates.