

# compound diagram

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This unit examines how atomic structure relates to the macroscopic properties of substances. Learn about chemical bonding, Lewis diagrams, resonance and formal charge, VSEPR, and more. Practice what you've learned and study for the AP Chemistry exam with more than 85 AP-aligned questions.

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## Drawing dot structures (video) | Khan Academy

Here's some of the guidelines for drawing dot structures. So let's say we wanted to draw the dot structure for this molecule, so silicon tetrafluoride. The first thing we would need to do is to find the total number of valence electrons. And we would account for these valence electrons in our dot structure. So to find the valence electrons, we need to look at it periodic table. So here I have ...

## Representing ionic solids using particulate models - Khan Academy

And so if I were to draw one of these diagrams, it would look something like this. Let me draw the bromide first. So I have a bromide anion, I have another bromide anion, another bromide anion, maybe I have a bromide anion right over here, bromide anion over there, maybe a few more.

## Compound events example with tree diagram - Khan Academy

The tree diagram below shows all the possible outcomes of flipping three coins. At the top of the tree, this shows us the two outcomes for the first coin, and then given each of those outcomes, it shows us what's possible for the second coins.

## Count outcomes using tree diagram (video) | Khan Academy

Each branch in a tree diagram represents a possible outcome. Tree diagrams can be used to find the number of possible outcomes and calculate the probability of possible outcomes.

## Probabilities of compound events (practice) | Khan Academy

Practice using sample space diagrams to find probabilities of independent compound events.

## **Molecular and ionic compound structure and properties | Khan Academy**

Learn about chemical bonding, Lewis diagrams, resonance and formal charge, VSEPR, and more. Practice what you've learned and study for the AP Chemistry exam with more than 85 AP-aligned questions.

### **Worked example: Lewis diagram of the cyanide ion (CN<sup>-</sup>)**

We can draw Lewis structures for polyatomic ions (ions containing multiple atoms) using the same stepwise procedure as for neutral molecules. In this video, we'll see how to construct the Lewis diagram of the cyanide ion (CN<sup>-</sup>).

## **Compound events example with tree diagram (video) | Khan Academy**

Sal figures out the probability of flipping three coins and getting at least two tails.