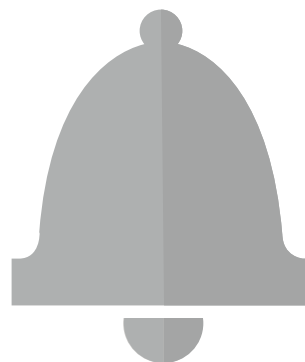
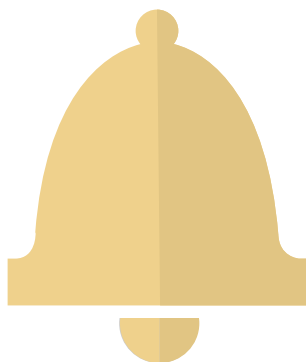
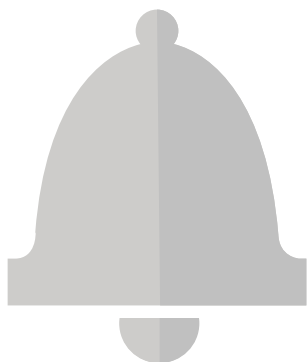


CHEMISTRY ADVENT 2017

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BELL METAL COMPOSITIONS



Cu
COPPER

75%

Sn
TIN

20%

Ni
NICKEL

Pb
LEAD

Fe
IRON

Sb
ANTIMONY

Zn
ZINC

Bi
BISMUTH

Various other elements, some of which are shown on the right, make up the balance of the percentage

Bells are commonly made of tin bronzes, essentially alloys of copper and tin with other trace elements making up the balance. Some trace elements are purposefully added to improve the material properties and sound. Trace elements such as phosphorus and sulfur can make the bell more susceptible to cracking.



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