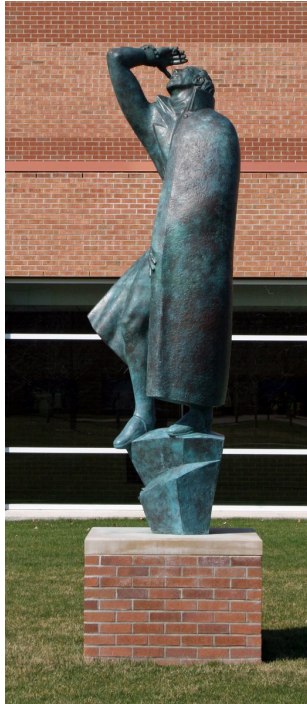


Marshall M. Fredericks Sculpture Museum Mini Lesson Plan

Eleventh Grade

The Poet: Lord Byron, SVSU sculpture garden in bronze (left) and small scale bronze, Museum (right).



Marshall Fredericks sculpted *Lord Byron* in small scale (right), when he was teaching at Cranbrook Education Community in Bloomfield Hills, MI in the 1930s. He completed the full scale sculpture in clay days before he died in 1998. He chose this theme because he enjoyed the writings of the English author, Lord Byron. Watch the bronze casting process of this sculpture online at: <http://www.youtube.com/watch?v=JGXVVI6RehI&feature=youtu.be>

Now that you have watched the casting of Fredericks' *Lord Byron*, can you answer these questions?

This sculpture is bronze. What metals compose bronze?

What is a term for a metal that is composed of two or more metals?

What is the percentage amount of the two metals that bronze is composed of?

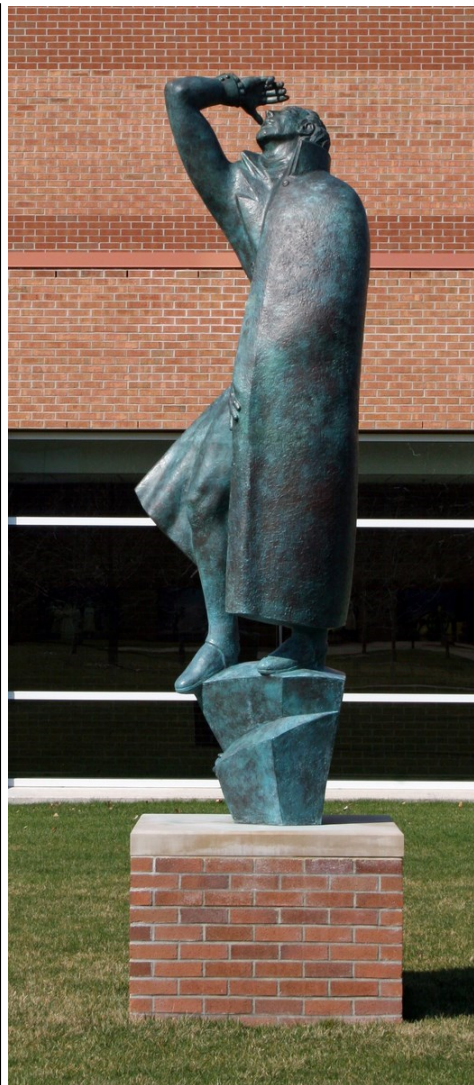
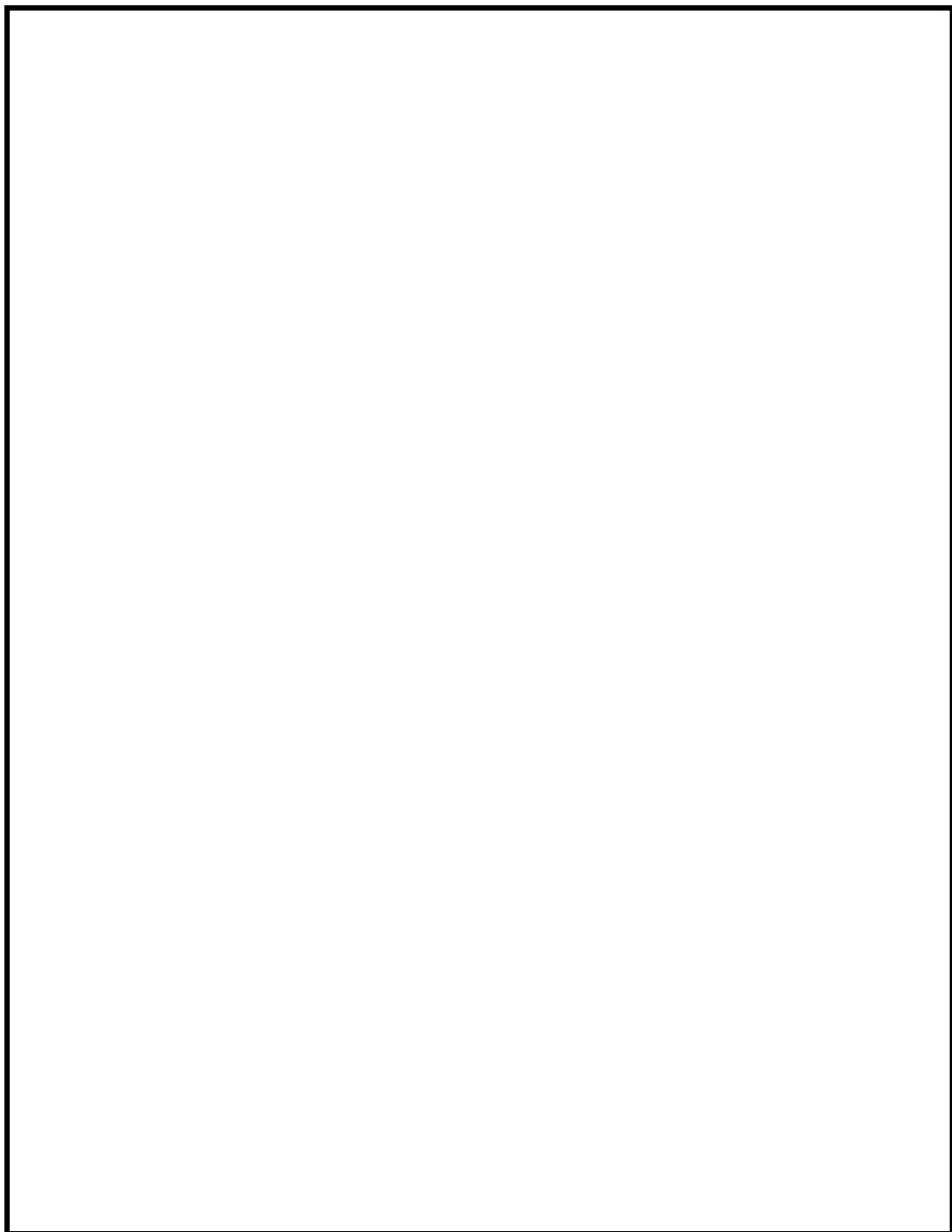
Identify these metals and those with similar chemicals and properties on the periodic table?

How hot (in Fahrenheit) does bronze have to be to be in a molten state?

Why are bronze sculptures hollow?

What is a patina?

Make your own abstracted drawing of *Lord Byron* by geometrically drawing the sculpture with shapes using a straight edge and no organic (curvy) lines. Use the space below or another larger piece of paper.



Curriculum Connections

Science

C4.9A

Math

CCSS.Math.Content.HSG-CO.D.12

VPAA

ART.VA.I.HS.1

ART.VA.I.HS.2

ART.VA.I.HS.3

ART.VA.II.HS.1

ART.VA.II.HS.2

ART.VA.II.HS.3