T.C.
Ankara Üniversitesi
Mühendislik Fakültesi
Jeoloji Mühendisliği Bölümü

JEM 227
GEMOLOJİ

Dr. Öğr. Üyesi Kıymet DENİZ

2. Hafta

2020-2021 Güz Dönemi

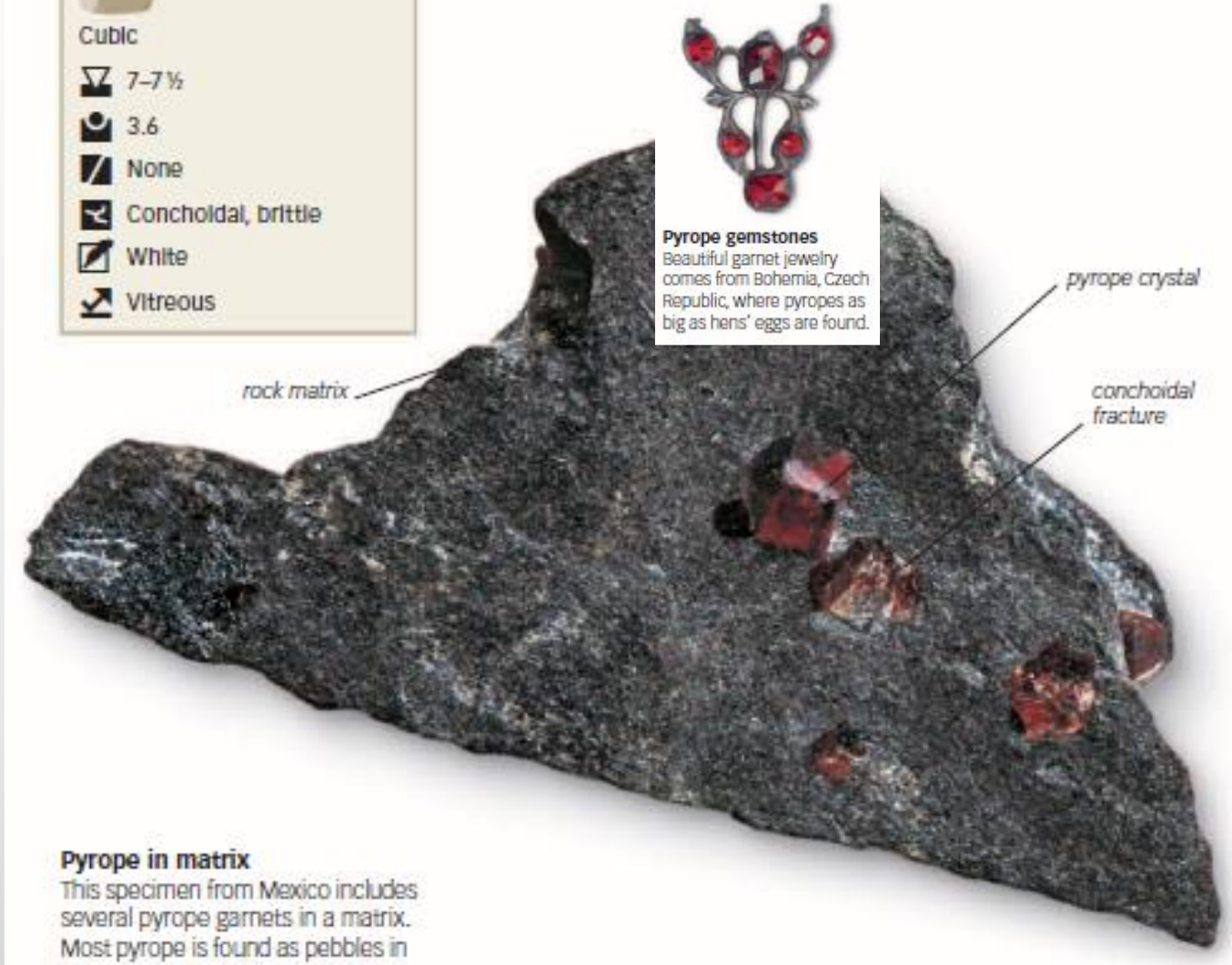
Bu ders notlarının hazırlanmasında Mefail Yeniyol'un sunumlarından ve Mineraloji kitabından yararlanılmıştır.

GRANAT

Kimyasal Formülü	$Mg_3Al_2(SiO_4)_3$

PROFILE

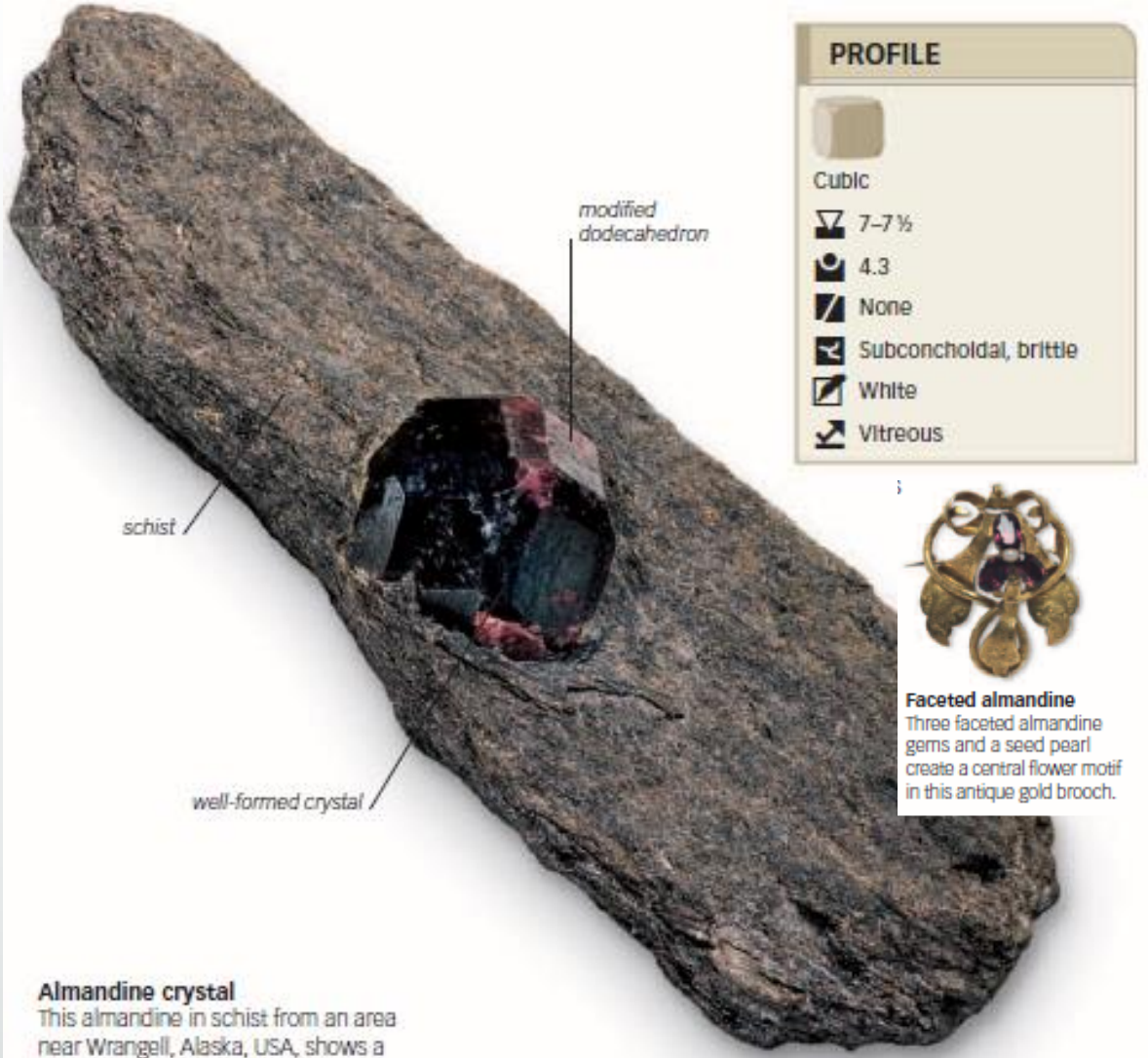
Cubic
7–7½
3.6
None
Concholdal, brittle
White
Vitreous



Pyrope gemstones
Beautiful garnet jewelry comes from Bohemia, Czech Republic, where pyropes as big as hens' eggs are found.

Pyrope in matrix
This specimen from Mexico includes several pyrope garnets in a matrix. Most pyrope is found as pebbles in placer deposits with other gems.

Bonewitz, R. L. (2012)



Almandine crystal
This almandine in schist from an area near Wrangell, Alaska, USA, shows a modified dodecahedral form.

PROFILE

Cubic
7–7½
4.3
None
Subconchoidal, brittle
White
Vitreous

Faceted almandine
Three faceted almandine gems and a seed pearl create a central flower motif in this antique gold brooch.

Kimyasal Formülü	$Fe_3Al_2(SiO_4)_3$

GRANAT

Kimyasal Formülü	$Mn_3Al_2(SiO_4)_3$	Kimyasal Formülü	$Ca_3Al_2(SiO_4)_3$

Spessartine crystals
In this specimen from Norway, well-formed dodecahedral crystals encrust a rock matrix.

PROFILE

Cubic
7–7 ½
4.2
None
Concholdal, brittle
White
Vitreous

Octagonal step cut
Because of spessartine's rich color, the liquid inclusions under the edge facets in this gem are not very noticeable.

Bonewitz, R. L. (2012)

PROFILE

Cubic
6 ½–7
3.6
None
Concholdal
White
Vitreous

Grossular on diopside
These grossular crystals from Piedmont, Italy, are set on a matrix of diopside.

Grossular beads
This strung group is made up of size-graded, round, luminescent green grossular beads.

Referanslar

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