Lesson 1.6 Describing Pairs of Angles

Thursday, September 16, 2021 9:47 PM

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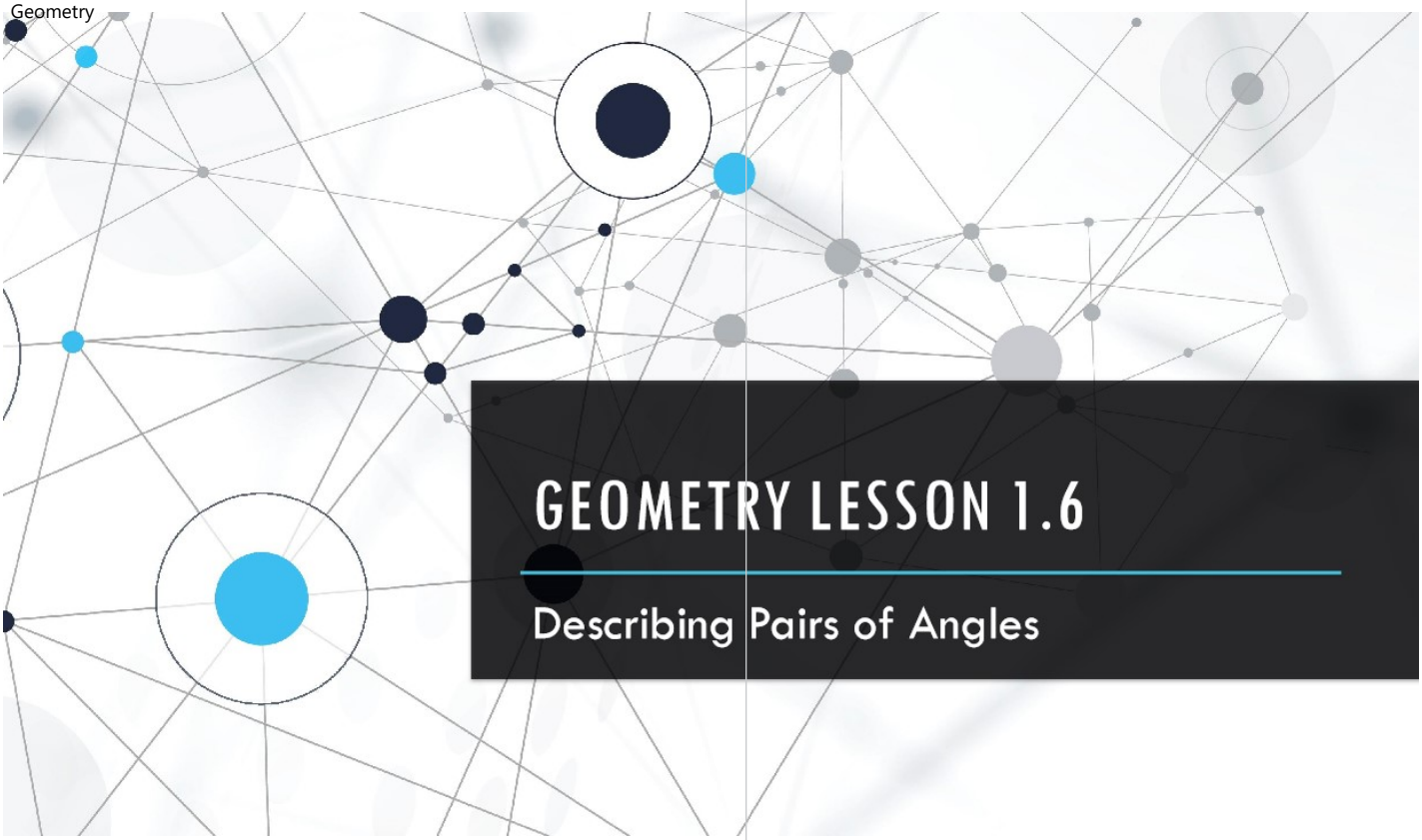
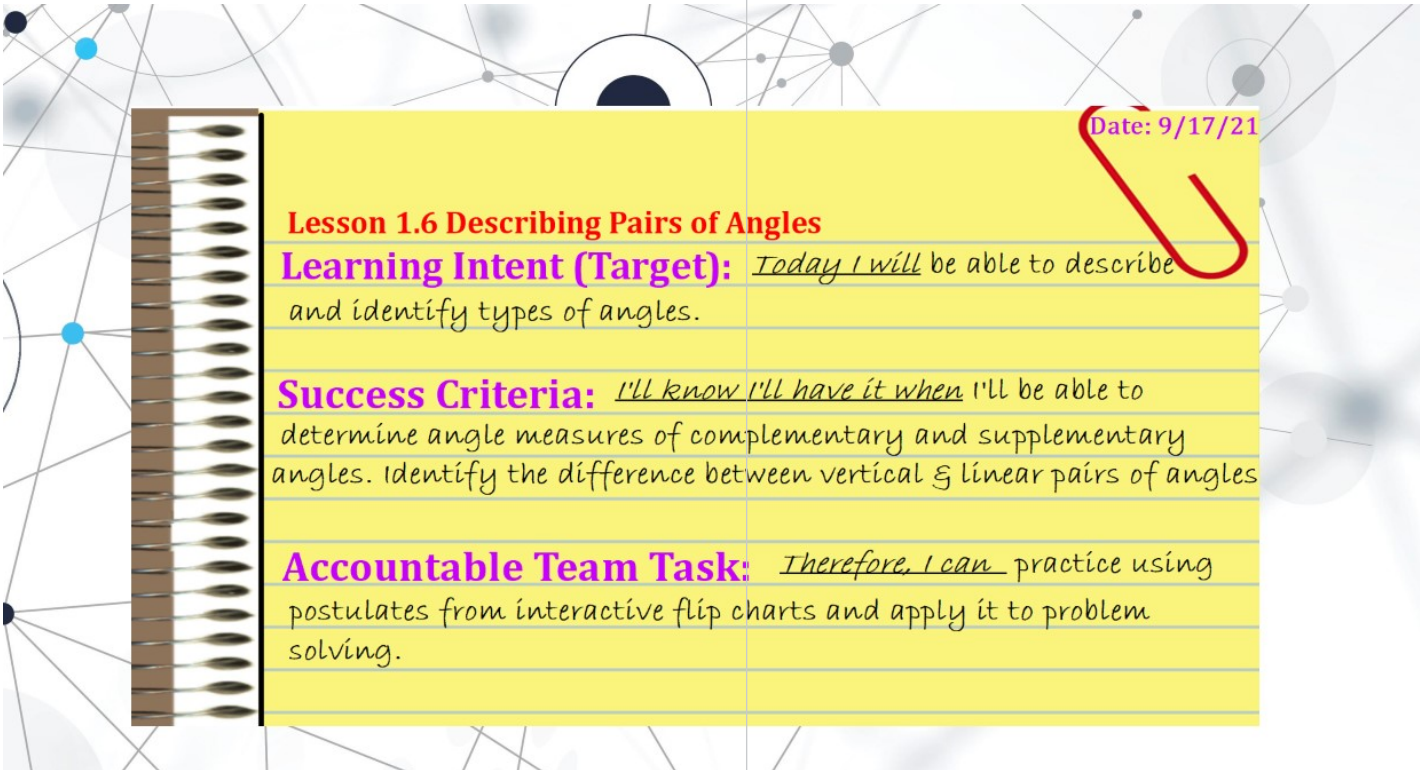
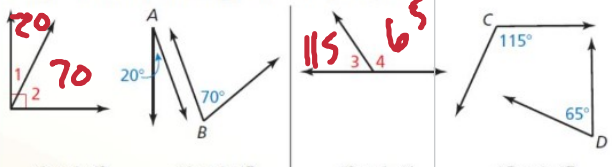
Lesson 1.6 Geometry





Core Concept

Complementary and Supplementary Angles



∠1 and ∠2 ∠A and ∠B ∠3 and ∠4 ∠C and ∠D

complementary angles

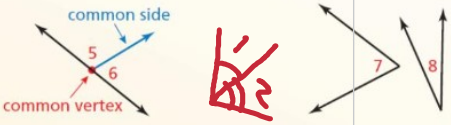
Two positive angles whose measures have a sum of 90°. Each angle is the *complement* of the other.

supplementary angles

Two positive angles whose measures have a sum of 180°. Each angle is the *supplement* of the other.

Adjacent Angles

Complementary angles and supplementary angles can be *adjacent angles* or *nonadjacent angles*. **Adjacent angles** are two angles that share a common vertex and side, but have no common interior points.

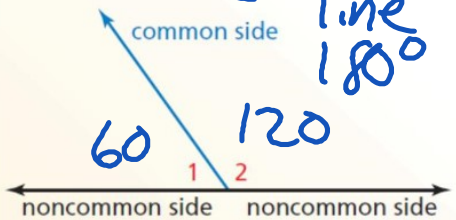


∠5 and ∠6 are adjacent angles. ∠7 and ∠8 are nonadjacent angles.

Core Concept

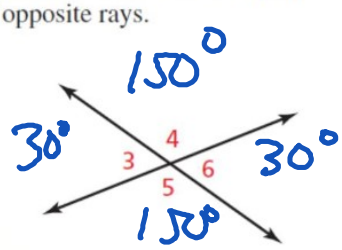
Linear Pairs and Vertical Angles

Two adjacent angles are a **linear pair** when their noncommon sides are opposite rays. The angles in a linear pair are supplementary angles.



∠1 and ∠2 are a linear pair.

Two angles are **vertical angles** when their sides form two pairs of opposite rays.



∠3 and ∠6 are vertical angles.
∠4 and ∠5 are vertical angles.