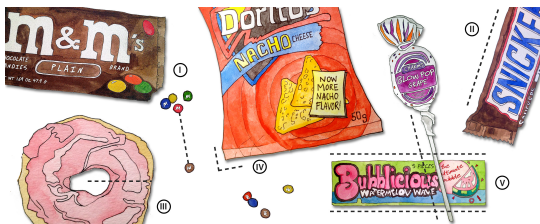


Work with your group up at a board to create 4 sketches:

- In a hyperbolic sketch, produce a hyperbolic line l as well as two hyperbolic lines m_1 and m_2 that both go through the same point off of l but never intersect l .
- The exterior angle theorem says that the exterior angle of a triangle equals the sum of the remote interior angles.
 - Create a Euclidean geometry sketch and annotate to showcase that the exterior angle theorem is true there.
 - Create a hyperbolic sketch and annotate to show why the exterior angle theorem is false there.
 - Create a spherical triangle sketch and annotate to show why the exterior angle theorem is false there.



<https://pankmagazine.com/piece/euclids-postulates/>