

6.1 – 6.3 DAY 1 CONSTRUCTIONS of SPECIAL SEGMENTS OF TRIANGLES

1. Grab the construction packet.
 2. You will create an acute triangle, right triangle, and obtuse triangle (size of your choice) using the protractor provided.
 3. Using the links provided below watch the appropriate video per the segment you are constructing and duplicate the method in the video three times per triangle to determine the location of the point of concurrency for each segment on each type of triangle in order to fill in the chart.
 4. After the constructions are all complete, use your constructions to fill in the chart on the front of the packet. Then use your constructions and table to answer questions two below the chart.
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Perpendicular Bisector:

How to construct:

<https://tinyurl.com/ybnuk6wt> (compass)

<https://tinyurl.com/3tdbctff> (safeT compass)

(<https://www.youtube.com/watch?v=ed7eEUDAvnU>)

(<https://drive.google.com/drive/u/1/my-drive>)

Definition and visual: <https://tinyurl.com/yicsnaeck>

(<https://mathopenref.com/perpendicular.html>)

Median:

How to construct:

(compass) <https://tinyurl.com/ycbht5zr> (safe T) <https://tinyurl.com/y3tmttzc>

(<https://www.youtube.com/watch?v=aVDjxVMa6do>)

(<https://www.youtube.com/watch?v=FgTsOwbWk2E>)

Definition and visual: <https://tinyurl.com/y72h2utx>

(<https://www.mathopenref.com/trianglemedians.html>)

Angle Bisector:

How to construct:

<https://tinyurl.com/y7scwovh> (compass) <https://tinyurl.com/mrybr42u> (safeT)

(<https://www.youtube.com/watch?v=TTr4ZUEaiok>)

(<https://www.youtube.com/watch?v=G8EEGm97y9o>)

Definition and visual: <https://www.mathopenref.com/bisectorangle.html>

(<https://www.mathopenref.com/bisectorangle.html>)

Altitude:

How to construct:

Acute and Right: *Inside:* <https://tinyurl.com/va4l7lk4>

(<https://www.youtube.com/watch?v=C1ICGwbEc94>)

Obtuse Only: *Outside:* <https://tinyurl.com/y7v8g5nt>

(<https://www.youtube.com/watch?v=1X1TYSJueCM>)

All of them: <https://tinyurl.com/wlkkmmd>

(<https://www.youtube.com/watch?v=7WxiMbfdQcg>)

Safe-T Compass: <https://drive.google.com/file/d/1TDne0dcLV2FODAEpQLqZTSQ6grl9BBBI/view>

Obtuse: <https://tinyurl.com/v8v5v42b>

Definition and visual: <https://tinyurl.com/ybdwj3kl>

(<https://www.mathopenref.com/altitude.html>)

TRICKS for REMEMBERING....

An Odd Peanut Butter Cup May
Contain Apple Butter Instead

Altitude Orthocenter,

Perpendicular Bisector Circumcenter,

Median Centroid,

Angle Bisector Incenter