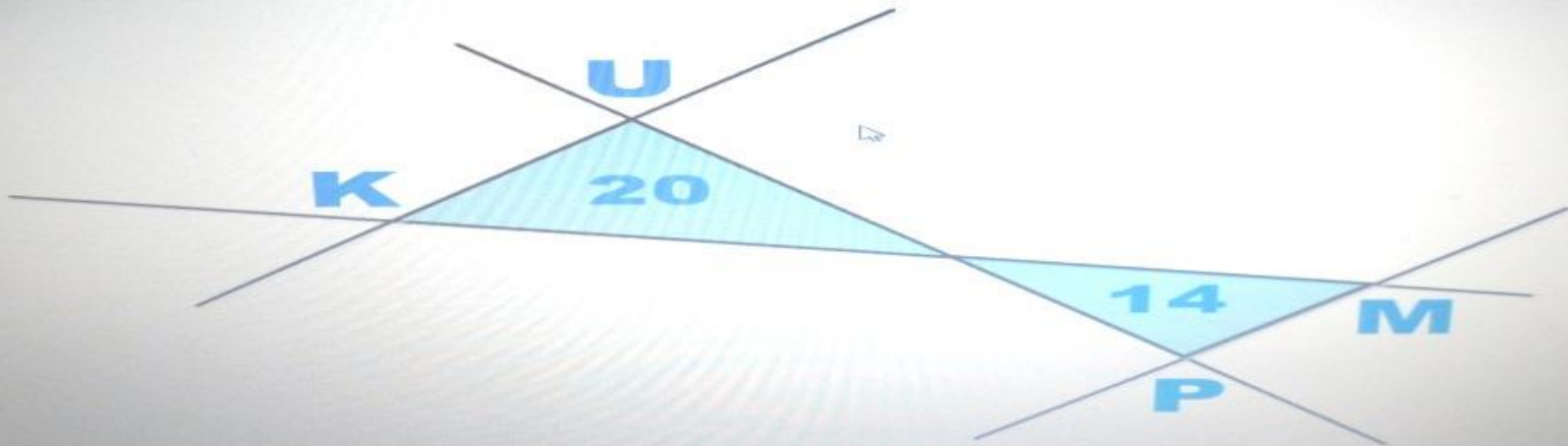
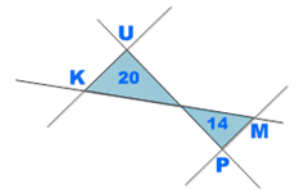


Stožnice – medpredmetna povezava z angleščino

Nevenka Jerebica



Zavod Republike Slovenije za šolstvo
The National Education Institute Slovenia

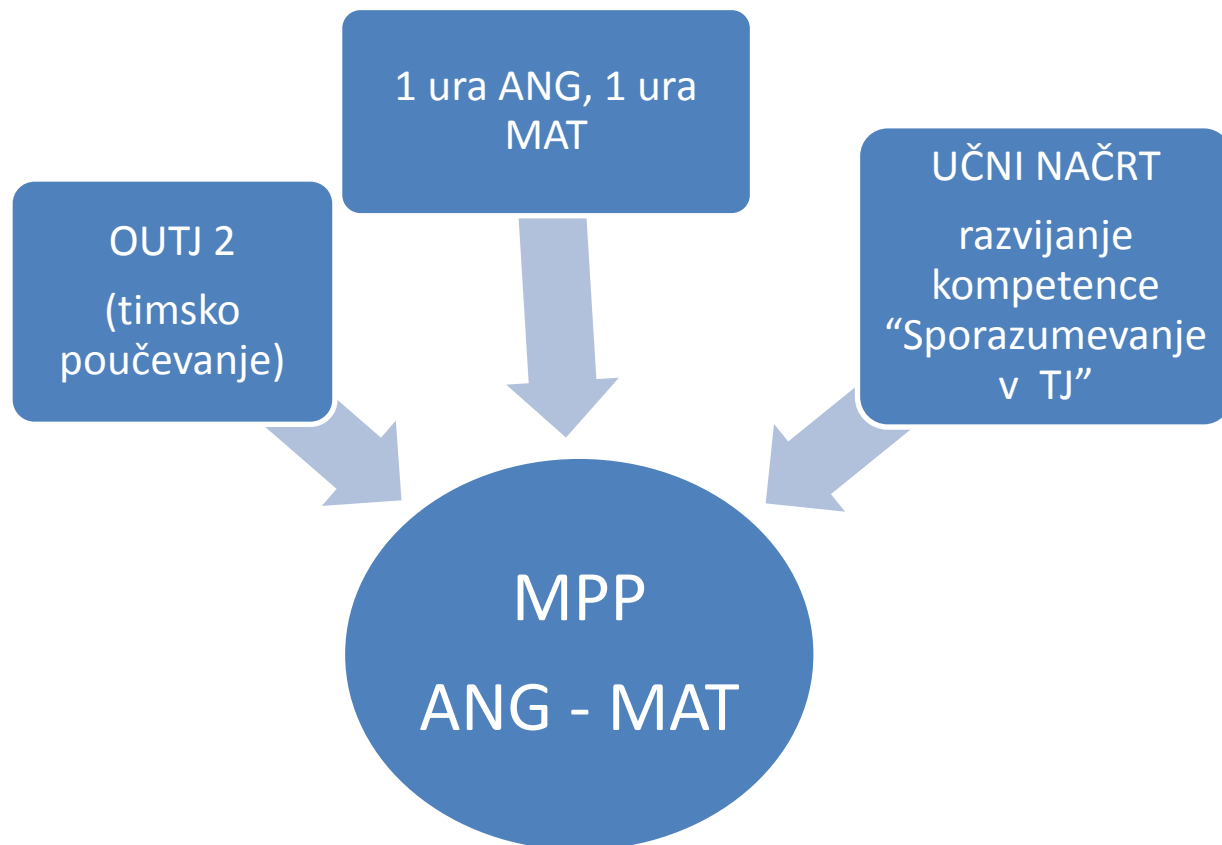
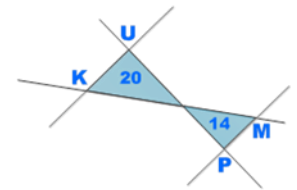


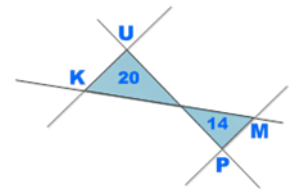
CILJI

Razvijanje strokovne pismenosti v tujem jeziku

Utrditi osnovne pojme in definicij stožnic

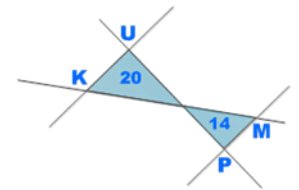
Razumeti matematično nalogo v angleščini



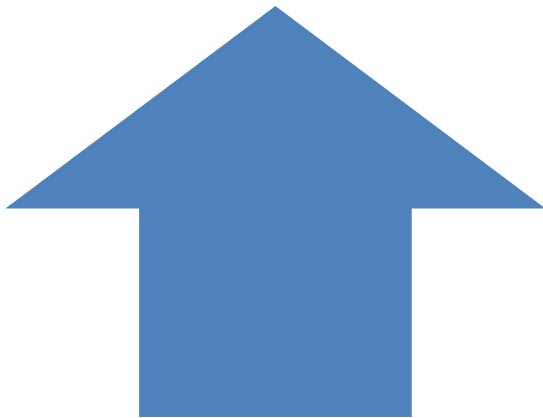


URA ANGLEŠČINE

- Prevodi osnovnih pojmov stožnic v angleščino
(stožnica, gorišče, mala in velika os, teme, krožnica, ekscentričnost, asimptota, vodnica, presečišče, izhodišče)
- Zapisi definicij stožnic (delo v dvojicah, uporaba slovarjev)
 - nepoznavanje definicij
 - težave pri prevajanju (strokovni mat. izrazi, vsebina, slovnica)
 - potrebna bi bila prisotnost obeh profesorejv (pomanjkanje str. znanja)
 - s pomočjo prof. zapišejo jezikovno pravilno definicijo



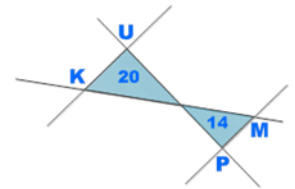
URA ANGLEŠČINE



An ellipse is the set of points in a plane where the sum of the distance to two selected points is constant.



The oval is a community of dots in a plane where the combined distances of determined dots are permanent.

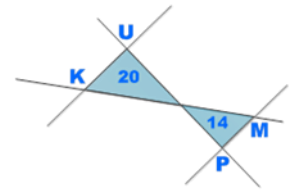


URA ANGLEŠČINE

- Reševanje učnega lista – “word formation and gap fill”

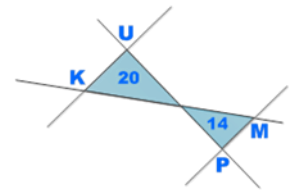
The ellipse was first studied by Menaechmus, investigated by Euclid, and named by Apollonius. The focus and conic section directrix of an ellipse were considered by Pappus. In 1602, Kepler believed that the orbit of Mars was oval; he later discovered that it was an _____ with the Sun at one _____. In fact, Kepler introduced the word "focus" and published his _____ (*discover*) in 1609. In 1705 Halley showed that the comet now named after him moved in an _____ (*ellipse*) orbit around the Sun (MacTutor Archive). An ellipse rotated about its minor _____ gives an oblate spheroid, while an ellipse rotated about its major _____ gives a prolate spheroid.

- doseganje ciljev angleščine in matematike.



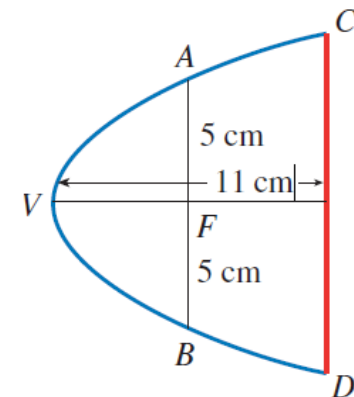
URA MATEMATIKE

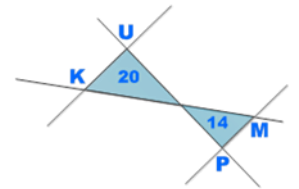
- Ponovitev osnovnih pojmov stožnic
- Reševanje nalog o stožnicah (v angl.)
- Preverjanje rešitev



URA MATEMATIKE

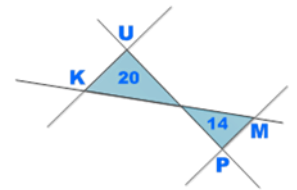
4. Find the equation of the circle that goes through the two foci and the upper y-intercept of the ellipse
6. A cross-section of a parabolic reflector is shown in the figure. The bulb is located at the focus and the opening at the focus is 10 cm.
- Find an equation of the parabola.
 - Find the diameter of the opening ICDI, 11 cm from the vertex.





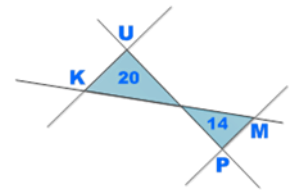
URA MATEMATIKE

- razumeli besedilo
- težave pri reševanju nalog
- večja motiviranost za delo
- medsebojna pomoč dijakov pri prevodih in reševanju nalog
- več časa za reševanje -> DN



EVALVACIJA MPP

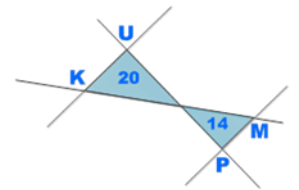
- Doseženi zastavljeni cilji (usvojitev strokovnega besedišča, razumevanje mat. besedila)
- Vpogled v strokovno matematično besedilo v angleščini
- blok ura, oba učitelja



ZAKLJUČEK

PREDNOSTI MPP MAT – ANG:

- - poglobljeno razvijanje strokovne pismenosti
 - privajanje na tujo strokovno literaturo
 - širjenje strokovnega besedišča v tujem jeziku
- Povezovanje obeh učiteljev –doseganje ciljev
- Profesionalna in osebnostna rast



ZAKLJUČEK

OMEJITVE MPP MAT – ANG:

- veliko priprav(iskanje in urejanje besedil/nalog)
- sodelovanje in prilagajanje
- interes in znanje dijakov