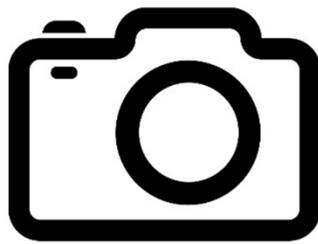


Selfies +
Geometry =

Selfieometry



a project combining the pop culture trend, the "selfie," with geometry

Selfieometry

Notes to the Teacher:

Please read through the project and make the necessary adjustments to fit the needs of your classroom and students. I left red blanks for some information to be determined by you. Things to consider:

- Number of Photos student needs for project- Suggestion: 15. Place in student directions and adjust rubric, if necessary.
- List of terms from which to choose:
 - I selected most of the terms taught in the first semester of most pacing guides I have read. Add or delete to fit your needs.
- Your hashtag! Students will have so much fun posting their selfies on Instagram, Facebook, and Twitter! Give them all one hashtag to use, so you can see them! Suggestions: Use your name or your school name and get creative! For example, #TravisSelfieometry2016 or #BHSGeometrySelfies. This is great for extra credit, if you allow extra credit. If this is not your style, feel free to take it out. (Note- if a student's account is on private and you do not follow them, you will not be able to see their posted photo.)
- Due Date- I suggest giving them at least a week.
- To present or not to present? If your pacing guide allows, having students present could be fun! Otherwise, have students turn them in on a poster or send them to you digitally by email, Dropbox, or Google Drive. Be sure to adjust your rubric if necessary! (I included one with and without a presentation aspect.)

When ready, print the handouts that you want students to have (Q&A handout, list of terms from which to choose, rubric). Read through the project details together using the attached PowerPoint.

Selfieometry

Q: What is the Selfieometry Project?

A: Students take photos of themselves (selfies) with naturally occurring geometric figures to illustrate an understanding of the Geometry concepts and to apply their understanding to the real world.

Q: Which geometry figures do I choose and how many?

A: Students must choose from the following list of terms. The final product should include _____ terms.

Q: Do I have to be in the photos?

A: Yes! By taking a selfie, it is proof that the student actually found the geometric shape and did not pull it from the internet.

Q: Can I draw the geometric figure on paper and take a picture with it?

A: No, the goal is to discover how geometry is found in everyday, real world things. While the student should not manufacture figures for a picture, students do not have to find things that only occur naturally or can be found in nature. There are a lot of examples of geometry in man-made objects and buildings. Take a look at architecture, construction sites, artwork, flags, quilts, etc.

Q: Can I do more than one term in one photo?

A: Yes, but there are limitations. Each term should be used in a unique example, but they may be together in one photo. One example may not be used for multiple terms.

Q: How should I present my photos?

A: Each selfie needs a caption that uses the term in such a way that demonstrates the student understands the meaning of the term. Students can print the photos and put them on a poster board with the captions or insert them digitally into a PowerPoint or Prezi. Students should be creative and have fun!

Q: Can I post them on social media? Is there a hashtag we should use?

A: Yes! Please do! Post your Selfieometry pictures and use the hashtag _____ so that I can see! This does not replace what you turn in though. (You can post them as a collage, so your followers don't get sick of your over-posting!)

Q: Can I use photo details and text to mark the geometric figures?

A: Sure! Things like that will help demonstrate understanding of the term.

Q: When is the project due?

A: _____

Q: Will we present to the class?

A: _____

Selfieometry

Choose _____ terms from the list below:

parallel lines

transversal

perpendicular lines

alternate interior angles

vertical angles

alternate exterior angles

adjacent angles

corresponding angles

complementary angles

same side interior angles

supplementary angles

linear pair

translation

line of reflection

glide reflection

rigid motion

rotation

symmetry

congruent

image

reflection

rotational symmetry

angle of rotation

pre-image

dilation

point symmetry

orientation

reflectional symmetry

composition of transformations

vertex

regular polygon

parallelogram

acute angle

convex polygon

rectangle

perpendicular bisector

ray

right angle

triangle

rhombus

circumcenter

collinear

obtuse angle

right triangle

kite

median

acute triangle

trapezoid

centroid

parallel lines

obtuse triangle

altitude

scalene triangle

orthocenter

midpoint

equilateral triangle

angle bisector

bisect

isosceles triangle

incenter

polygon

quadrilateral

point of concurrency

circumscribed circle

inscribed circle

scale drawing

similar figures

interior angle

exterior angle

hypotenuse

equidistant

straight angle

concave polygon

square

midsegment

line segment

circle

radius

diameter

circumference

Selfieometry

Name: _____ Date: _____

	Excellent (4)	Good (3)	Fair (2)	Poor (1)	Does not meet minimum requirement (0)
Demonstrates Understanding	accurately matched all terms to examples in photos	accurately matched most terms to examples in photos	accurately matched about half of terms to examples in photos	accurately matched few terms to examples in photos	accurately matched no terms to examples in photos
Followed Directions	followed all directions	followed directions on most of project	followed directions on half of project	followed some directions	followed no directions
Caption	accurately and creatively describes term, shows full understanding	accurately and creatively describes most terms, shows some understanding	accurately describe some terms, shows some understanding	captions show little understanding	incorrect or no captions
Photos	15	11-14	7-10	3-6	0-2
Score:					

Notes: _____

Selfieometry

Name: _____ Date: _____

	(4) Excellent	(3) Good	(2) Fair	(1) Poor	(0) Does not meet minimum requirement
Demonstrates Understanding	accurately matched all terms to examples in photos	accurately matched most terms to examples in photos	accurately matched about half of terms to examples in photos	accurately matched few terms to examples in photos	accurately matched no terms to examples in photos
Followed Directions	followed all directions	followed directions on most of project	followed directions on half of project	followed some directions	followed no directions
Caption	accurately and creatively describes term, shows full understanding	accurately and creatively describes most terms, shows some understanding	accurately describe some terms, shows some understanding	captions show little understanding	incorrect or no captions
Photos	15	11-14	7-10	3-6	0-2
Presentation	clear and confident, projected, eye contact, well rehearsed	confident, eye contact, rehearsed	needs rehearsal	poor presentation	did not present
Score:					

Notes: _____

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