Erikson Institute
Early Math Collaborative

0 to 8 Early Math Project

Photo Chat resources

Visit us online: https://earlymath.erikson.edu/mathematical-language-routines-photos/

	Protocols and Resources	Photo Album Links
Photo Chat 101	Getting Started with Photo Chat https://www.dropbox.com/s/6wjaibmur0cz4wk/Photo Chat 101.pdf?dl=0 Gestures Poster for Classroom https://www.dropbox.com/s/y8rnqwgvx01rmtm/Gesture Responses Visual Eng %26 Spanish.pdf?dl=0 Talk Routine Poster– Spanish https://www.dropbox.com/s/ctx5hp5u9750byt/Routine Chart_Spanish_.pdf?dl=0 Talk Routine Poster– English https://www.dropbox.com/s/oz0gpwfowljic32/RoutineChart_English.pdf?dl=0https://www.dropbox.com/s/0xfin62hjnnytfh/Routine%20Chart_English.pdf?dl=0	Gesture Library https://photos.app.goo.gl/nmjHnPhnVRqoHrBr5
Notice & Wonder	Notice & Wonder Protocol https://www.dropbox.com/s/ngxsu1j7fzumiga/Notice %26 Wonder Protocol.pdf?dl=0	Notice & Wonder Photo Album https://photos.app.goo.gl/PoioHT57xdGTUfwWA Begin here! All grades can foster language building routines.
Same AND Different	Same & Different Protocol https://www.dropbox.com/s/xirm65411yv85mj/Same and Different Protocol.pdf?dl=0 Same But Different Math from Looney Math https://www.samebutdifferentmath.com/	Same & Different Photo Album https://photos.app.goo.gl/jp2M1iJrRS5xf6bW7 Recommended for K and 1st grade classrooms
How Many of What?	How Many? Protocol https://www.dropbox.com/s/4t7h2raevmy4gtd/How Many Protocol.pdf?dl=0 Number Talk Images http://ntimages.weebly.com/photos.html	0-5 Photo Album (Pre-K and K) https://photos.app.goo.gl/M7yR3ZBsHwxYTeq96 0-10 Photo Album (K and 1st) https://photos.app.goo.gl/9Lx1mWtfCXvP4F717

	Math for Love: Unit Chats	0-20 Photo Album (1st – 3rd)
	https://mathforlove.com/lesson/unit-chats/

Google search: **#unitchat** | https://photos.app.goo.gl/MyY9jScS2pyD9ATPA |
| Which One Doesn't Belong? | Which One Doesn't Belong?

https://wodb.ca/shapes.html | Recommended for 1st – 3rd grade classrooms

*depending on the complexity of attributes in the images |

Infants & Toddlers
Joint Attention / Say What You See

Preschool
Notice & Wonder

PreK/Kindergarten
Same AND Different

PreK/K/1st thru 3rd Grades
How Many of What? / Unit Chat
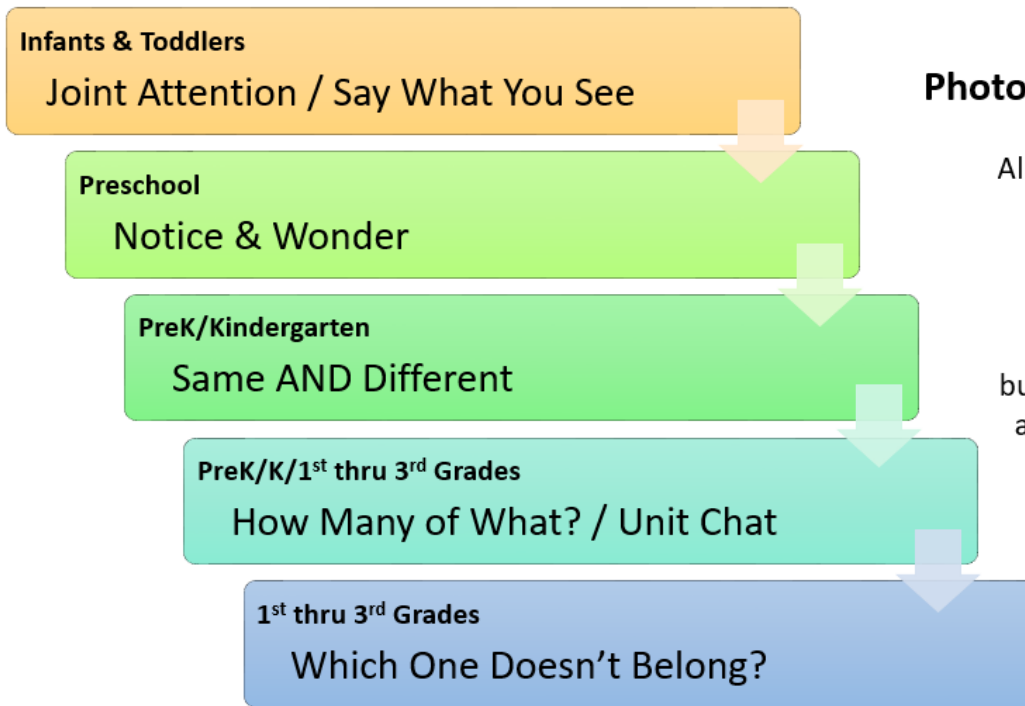
1st thru 3rd Grades
Which One Doesn't Belong?

Photo Chat Progression

All conversation requires joint attention.

We recommend ALL grades begin with Notice & Wonder to build curiosity and invite all voices and funds of knowledge.

Of the three early reading skills [oral language, print knowledge, phonological processing], the first one, **oral language ability, is the most consistently related to mathematics skills, particularly during the informal numeracy phase.**

– Purpura, Litkowski, & Knopik, 2019

Knowledge of certain language terms specific to mathematics (e.g., *more*, *few*) predicts mathematics development.

– Purpura & Logan, 2015