

## Common Sense Number Sense Strategies for Pre-K – First Grade Students



- KEY CONCEPTS**
- Number sense in pre-K and K predicts later math success
  - KENS screener helps predict who needs intervention
  - Subitizing, Number Combination & Number line Skills develop strong number sense
  - Playing games (linear board games, card games, foamies) reinforces number sense skill
  - Circle number lines and scaffolded number lines build number sense and estimation skills
  - Practice counting down and skip counting to build math skills

**Contact Information:**

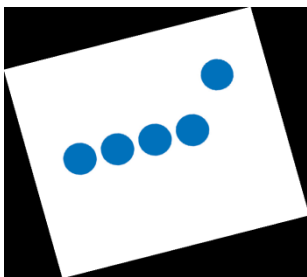
Ken Newbury, Ph.D.

[ken@newbury.us](mailto:ken@newbury.us) or [kenn@bgsu.edu](mailto:kenn@bgsu.edu)

419-344-2333

### KEYS TO BUILDING A STRONG NUMBER SENSE FOUNDATION

#### Designing Number Sense Curriculum & Intervention



**CREATE A GRADUAL CHALLENGE GRADIENT**

Only spend 2-5 minutes per day practicing

**SUBITIZE (Go Cards)**

*Variables*

- Color
- Quantity
- Spatial Arrangement
- Time

**USE INCREMENTAL REHEARSAL TO BUILD SKILLS**

Create opportunities for students to “SHOW” and “TELL” their work with manipulatives and paper.

#### Designing Number Sense Curriculum & Intervention



**PLAY GAMES 2-3 TIMES PER WEEK**

**PRACTICE TARGETED SKILLS**

- **Number Combinations (Compose/Decompose)**
- **Number line challenges with Scaffolds**
- **Games**
  - Card games and linear board games
- **Skill specific reinforcement (examples)**
  - Count on from 5
  - Make 10
  - Foamies with 2 hands
  - Classroom based games
  - Decompose/Compose 2 digit numbers
  - Math Talk! Students are encouraged to talk about their answers