THE INTEGRATION OF ACADEMIC LANGUAGE IN HELP MATH –
ACADEMIC SUCCESS DEPENDS ON ACADEMIC LANGUAGE MASTERY

➢ Research-based strategies in HELP Math:

  ➢ *Pre-teach essential vocabulary in context*– Building background knowledge (Marzano); KEY WORDS Activity in each lesson

  ➢ *Repeat and practice of essential words in various different contexts* – Academic language is included in every activity in every lesson presented in a variety of contexts

  ➢ *Integrate Academic Language throughout the instruction and interactivity* – simultaneous development of math concept and language mastery

    ➢ **Academic Language is modelled** with guided practice, repeated, visualized**,** explained, and practiced again so that it is rendered understandable/comprehensible, and can be mastered so that the language is ready to be used to develop additional concepts (when a new concept is introduced, key vocabulary is additionally scaffolded, ensuring mastery)

    ➢ **Synchronicity** – of audio, visual, and text, which creates connection between words, symbols, and meaning

    ➢ **Visual representations** - HELP Math provides a visual illustration of concepts (e.g., a figure), as well as English and native language (Spanish) audio and interactivity (e.g., *click the butterfly*).

    ➢ **Extra and content-specific vocabulary explained in English and Spanish through hyperlinks and key terms dictionary -** always includes text, audio and visual; function included in "Formulas" tab and "Need More Help" scaffolds

    ➢ **Scaffolding the linguistic load through repeated exposure to Academic Language in a variety of contexts** (e.g., during instruction, learning games, etc.)

      ➢ Clear description of academic tasks

      ➢ Appropriate speech (pace of virtual math coach, sentence structure, paraphrasing)

    ➢ **Interactive Notepad -** building students' reasoning and writing skills using academic language

      ➢ **Use Notepad for KWL activities -**

        ➢ *What is my objective for today (*know and understand by the end of the class)?

        ➢ *What do I know about this already (*prior knowledge*)?*

        ➢ *What new vocabulary was introduced today?*

        ➢ *One question that I would like to ask my teacher is…?*