

CLASSROOM LOOK-FORS

The classroom will have:

- Student work displayed
- Desks or tables arranged to provide teacher access to all students
- Necessary materials readily available
- Word walls (Optional)
- Warm-up or bell-ringer (optional)
- Launch problem scenario to check for student understanding
- Students engaged in solving mathematical problems and communicating their understandings
- Lesson closure and summary of primary mathematical objectives from the day

Teacher will be:

- Maintaining the pace of the lesson to achieve the day's objectives
- Initiating and facilitating student discourse
- Well-planned and prepared to:
 - Extend tasks
 - Accommodate individual differences
 - Connect classroom work to lab work
 - Summarize mathematical concepts of the lesson
- Connecting class work to work in the software
- Using effective questioning strategies to:
 - Access prior knowledge
 - Clarify student thinking
 - Assess student understanding of the mathematics
 - Ensure individual accountability
 - Connect multiple representations

Students will be:

- Making meaningful connections to prior knowledge, real-world experiences, tools and/or technology
- Discussing mathematical concepts with each other
- Working in groups or pairs focusing on mathematics as they manage their own learning, as well as taking an active role
- Able to communicate effectively within a whole class, small group, partner, or individual activities
- Determining the correctness of answers
- Able to describe their mathematical thinking or process
- Choosing a variety of methods to communicate (i.e. tables, graphs, models, diagrams, oral, written, technology)
- Able to use precise mathematical vocabulary
- Holding each other accountable during discussions
- Actively engages in class work taking full ownership of learning activities, displaying high levels of energy, willingness to ask questions and take risks

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