**Code-A-Pillar Math**

**MGSE1.OA.6** (Add and subtract within 20)

**E.Q.:** How can we add numbers to 20?

**Objective**: Students will program their Code-A-Pillar to roll to the correct answer to the problem.

**Materials**:

* Code-A-Pillar (1 per group. 4 to 5 students in a group)
* Large piece of butcher paper draw a large circle on it with one answer on one section and another on the other
* Math teacher made task cards (15-20 various addition/subtraction for 1st grade or 15-20 picture number cards for kindergarten) I used problem that would have on two answer options

**Procedures**:

Mini Lesson

1. Model how to start Code-A-Pillar and add pieces to it.
2. Model using the Code-A-Pillar to travel a distance in the room by adding a straight, left and right piece and demonstrating how it works
3. Show an addition Task Card, and explain that they must solve the problem then program the Code-A-Pillar to drive in the direction of the answer.

Group Task

1. Students will receive a math task card. They must first decide on an answer to the problem then program the robot to drive to the answer.
2. Students will keep the card if they got the answer right.
3. At the end students will count the number of cards they have collected.

Conclusion

1. Ask the students to discuss their strategy for finding the answer and programming the robot.

**Assessment**

Informal Observations will be recorded by the teacher



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| 9 + 3 = | 8 + 8 = |
| 11 + 1 =  | 10 + 6 = |
| 8 + 4 = | 14 + 2 = |
| 6 + 6 = | 4 + 12 = |
| 5 + 7 = | 1 + 15 = |
| 10 -5 = | 14 -7 = |
| 12 – 7 = | 19 – 12 =  |
| 8 – 3 = | 9 – 2 = |
| 14 – 9 = | 11- 4 = |
| 9 -4 = | 10 -3 = |

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