Name _____   Date _____

Stack Up Work

Work with a small group to collect data using pennies. Each group will need 20 pennies. You may use any tools that you use in class, including graph paper, a ruler, and a calculator.

1. **A.** Predict how many pennies you will need to build a stack of pennies with a height of 5 cm.

    B. Check your prediction. How many pennies did you need?

    How accurate was your prediction?

Where is zero on your ruler?
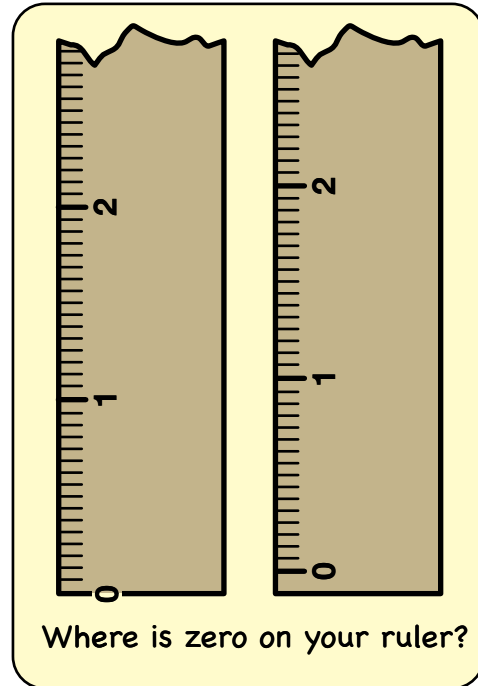
2. **A.** How many pennies would you need to build a stack 1 meter tall? (100 cm = 1 m)

    B. Explain how you found and checked your answer.

✓ Check-In: Question 3

3. The moon moves around the Earth in an orbit. Its average distance from the Earth is 384,400 km. (1 km = 1000 m) How many pennies would you need to build a stack to reach the moon? Show all of your work. Write a paragraph to justify your solution.

Stack Up Work Check-In: Question 3 Feedback Box

Reviewers _____

Student-to-Student	Yes . . .	Yes, but . . .	No, but . . .	No. . .
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem.				
MPE3. Check for reasonableness. I look back to see if my answer makes sense. If it does not, I try again.				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.				
MPE6. Use labels. I use labels to show what numbers mean.				

Name ———————————————————————— Date ————————————

**Stack Up Work
Check-In: Question 3
Feedback Box**

Teacher-to-Student	Yes . . .	Yes, but . . .	No, but . . .	No. . .
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem.				
MPE3. Check for reasonableness. I look back to see if my answer makes sense. If it does not, I try again.				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.				
MPE6. Use labels. I use labels to show what numbers mean.				