| Applied Mathematics | Team Leader: |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| wana wana High School | Team Member: |
| Unit 20 – Working with ProbabilitiesLab Activity:Pick a Coin, Any Co | on Betom |
| Objective: Students, working in number of coins of a determine the proba denominations in the People love money interest. In our cul save money for large | n teams of two, will count and recount the amount and an assigned jar – A, B, C, Students will then bility of randomly picking a single coin of one of the e jar. and the jingle of coins always draws attention and ture of buy now, pay later, it gives us a challenge to e or small purchases. |
| Work Related Skills:-Following direct operation-Working cooperation-Accuracy of you-Accountability f-Research and product-Calculating product | ions atively with others ir work for your work oblem solving skills pabilities |
| Equipment: Jar with Change (A, B, Calculator | |
| Procedure: Use the problem-solv | ving outline described below: |
| Select one or mo coin jars. Each person in t the total number Record data. Each person records Calculate the pro- 6. Group presentation | ore partner, depending on class size and number of the group counts the amount of change in the jar and of coins and number of each denomination. ount coins to assure accuracy. obabilities of picking a specific coin from the jar. |
| Evaluation: | |

| Requirements | Points Possible | Your Points |
|-------------------------------------------------------|--------------------|----------------|
| Completed Coin Count Data | 10 Points | |
| Calculated Probabilities | 20 Points | |
| Data Table– Counts Recorded, Probabilities calculated | 10 Points | |
| Procedures, Documentation – Steps 1-7 above | 5 Points | |
| Presentation | 15 Points | |
| Total | 60 Points | |

Bonus points will be awarded for the following categories:

- Most accurate count per class (2 points)
- Most accurate count for all classes (4 points)
- Most accurate probability calculations per class (2 points)
- Most accurate probability calculations for all classes (5 points)
- Most creative presentation of data, as voted by class (5 points)

| Data: | Jar Number: | | | | | | |
|-------------|-------------|---------|----------|---------|-------|-------|--|
| | Quartara | Dimag | Niekele | Donnios | Total | Total | |
| | Quarters | Diffies | INICKEIS | Fennies | Total | Total | |
| | | | | | Coins | Value | |
| Count #1 | | | | | | Х | |
| Value | | | | | Х | | |
| Count #2 | | | | | | Х | |
| Value | | | | | Х | | |
| Probability | | | | | | Х | |
| of Random | | | | | | | |
| Selection | | | | | | | |

Formulas: List the formulas you will use for this lab below:

