Algebra and Coding Practice Activity: "Ticker Tape Parade"

Set Up

1. Print as follows:
   a. 1 answer sheet per team.
   b. 1 set of clue sheets per team.
   c. 1 institutions info sheet per team.
   d. 2 equation slips per team.
2. Cut up the equation slips so that each sheet makes 6 strips each with four equations. Mix them up thoroughly and put them in a loose bag e.g. a carrier bag.
3. Cut the clue sheets in half to make six piles of each different separate clue sheet.
4. Create six 'stations' e.g. chairs, labelled with the names of the six institutions. (You can print the institutions names sheets for this purpose or just write them on paper). Put one set of code sheets (all sheets in each set are the same) at each institution. It does not matter which one goes where.
5. Give one institution info sheet and one answer sheet to each team.
6. Tell teams they each must nominate a 'runner' who is the only one allowed out of their seat during the round. They can collect items and hand in items as needed.

Running the Activity

1. Project the instructions slide onto a screen. (Or you could print it and hand it out to read).
2. Tell teams that to celebrate their entry into the Mayor's Fund Challenge you are going to have a ticker tape parade. Scatter the equations slips from the bag, into an open area team can reach equally, throwing them in the are to make a nice ticker tape effect!
3. After runners have collected some equation slips and teams have settled in to work, go round and check for 'cheating'. Teams should have no more than 6, all different, equations slips. Score one negative point for each slip over six and one for each duplicate.
4. Go slowly round the team doing this again, until they have all got down to the max six different. (They should return duplicates and excess to the pile on the floor).
5. When runner come out to ask for clue sheets, they should go to the correct institution and show you written down the correct response as per the table below. If they do, then they can take a clue sheet from that institution. If they are wrong or it is not written down say "sorry that's not write" or "make sure to read the instructions" and do not let them take a sheet.

Institution Name	Response	Institution Name	Response
St Pancras	7843	Science Museum	0870
Sadiq Khan (City Hall)	1994	Lloyd's	6125
Imperial College	9250	St Thomas'	7188

6. When teams finish, they should hand in a complete answer sheet. Note, that to be complete, all the answers must be present and correct, including clues in the correct order. If not, send them away to keep trying. The first team to finish get 12 bonus points, the second, 10, third, 8 and so on.
7. When the time is up (normally 25 minutes is allowed for this round) collect in all answer sheets and marks them according to the answer sheet on the following page. Complete the scoring by adding on the bonus for finishing and take off the penalties for having too many or duplicate slips.

Answers and Scoring

Equations Solution	Institution Name
7843	St Pancras
1994	Sadiq Khan
9250	Imperial College
0870	Science Museum
6125	Lloyd's
7188	St Thomas'

Score 5 points for each correct line (max 30 points).

Write out the decoded clues here in the correct order:

1. The locus

2. of a point

3. equidistant to

4. a fixed point

5. in three

6. dimensional space

Score 5 points for each correct decoded clue in any order (max 30 points).

Add 5 points if the order is correct.

Write the answer using the six letters here:

sphere

Score 10 points for the correct answer.