Numeracy and Mathematics Learning Pack

Name ______________
Be proud of yourself!

You have been working on lots of different maths skills. Think about the moments when you have been really proud of yourself and write about them below.

You can be proud of yourself for many reasons. Maybe:
- you thought you couldn’t do something but you worked hard and practised until you could
- you helped others to develop their skills and explained things they found difficult
- you worked hard at a really challenging puzzle or investigation and didn’t give up until you solved it
- you made mistakes but you learned from them and it helped you to understand.
Living within a budget
Ms McKenzie earns £340 per week.
Each month she pays £348 in rent.
Electricity and gas cost her £105 a month.
She saves £35 each month.
Her travel costs come to £25 per week.

1. How much does she have each month to spend on food and any other items? Show your working.

2. These receipts show how much Ms McKenzie spent on food and household items in March. How much did she have left for other things that month?

3. List 3 things that she might be saving for.

I can work out budgets
Money and finance: Understanding and explaining
Your dream project
What would your dream enterprise project be?
What would your business do or sell?
Imagine you could run any type of enterprise and think about how you would make a good profit.
Imagine that a reporter was writing about your enterprise for a newspaper article. Write about it here, describing how your enterprise works.

Local hero runs successful enterprise!

What would your business need to get it started? Write answers on the back of this sheet.

I can describe how an enterprise project would work
Money and finance: Applying and using
**Pie charts**

The pie charts show 16 children's favourite types of film and TV programme.

- **Films**
  - horror
  - comedy
  - adventure
  - sci-fi

- **TV programmes**
  - cartoons
  - sport
  - pop music
  - soaps

What was the most popular type of:

1. film? 
2. TV programme?

How many children liked these best:

3. adventure films?
4. TV soaps?
5. pop music shows?
6. sci-fi films?
7. comedy films?
8. cartoons?

What fraction of children choose these as their favourite type of film:

9. comedy?
10. adventure?
11. horror?

I can interpret pie charts

Information handling: Understanding and explaining
Time differences

Murdo reads a book every day. The watches show the times when he starts and finishes reading. How long does he take each time?

1. 6:50 – 8:45
2. 4:25 – 7:10
3. 7:19 – 8:04
4. 9:01 – 11:36
5. 1:55 – 6:16
6. 10:11 – 11:00
7. 1:40 – 4:14
8. 2:44 – 6:17

9. Murdo reads for exactly 1 hour and 9 minutes. On the back of this sheet, write four examples of times when he might start and stop reading.

I can work out simple time differences

Time: Understanding and explaining
Cross-sections

Tick to show whether each statement is true or false:

1. A cylinder can be sliced into two equal cylinders.
   True [ ] False [ ]

2. A cone can only be sliced into two identical halves by cutting through its vertex.
   True [ ] False [ ]

3. When a cylinder is cut in half the cross-section is always a circle.
   True [ ] False [ ]

4. When a sphere is sliced through its centre, two hemispheres are made.
   True [ ] False [ ]

5. When a cone is cut in half the cross-section can be a triangle.
   True [ ] False [ ]

6. When a cylinder is cut in half the cross-section can be a rectangle.
   True [ ] False [ ]

7. When a sphere is cut in half the cross-section is a circle.
   True [ ] False [ ]

8. When a sphere is sliced the cross-section can be an ellipse.
   True [ ] False [ ]

9. Write two more statements of your own on the back of this sheet. Ask your partner whether they are true or false.

I can explore cross-sections of cylinders, cones and spheres
Shape, position and movement: Understanding and explaining