



Halesowen C of E Primary School

Home Learning


DATE: 18.5.20-22.5.20

YEAR GROUPS: EYFS

Maths Problem Solving Focus Week

THEME/FOCUS: The Three Little Pigs <https://www.youtube.com/watch?v=QLR2pLUsl-Y>

- You can also act out the story using our Now Press Play stories.
- Click on the link <http://nowpressplay.co.uk/learn-at-home/> and use the password nowpressplay. Click on the reception tab and click on the Three Little Pigs story to hear the story and act out the story as the different characters.
- This week’s activities are all based on the story of the Three Little Pigs. Choose one of the links above to listen to the story, or if you have our own book of the story, you could read this with an adult.
- Don’t feel you have to do every activity every day- some things may be too hard especially for Nursery- if it is too hard- do another activity or change them slightly. The most important thing this week is lots of talking about maths.

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<p><i>Number based problems</i></p> <p>Activity 1 For this activity you could use Duplo, Lego, wood bricks or any other building toys you might have. Can you build a house for the 3 pigs to live in? How many bricks do you think they will need? Having a guess first is called estimating. After you’ve built your house, try and count how many bricks you’ve used (you might need a grown up to help if you’ve used a lot of bricks!) Was this number more or less than your guess/ estimate?</p>	<p><i>Shape based problems</i></p> <p>Activity 1 <i>Convince Me</i> “All houses look like squares with a triangle on top,” said the first little pig. “I think you’re right,” said the second little pig. “Well I think you’re wrong, houses can be lots of different shapes,” said the third little pig. Which pig do you agree with? If you can on your daily walk have a look at the houses, what shapes do you see? Can you make a tally chart to record the shapes of the</p>	<p><i>Measures based problems</i></p> <p>Activity 1 “My house is the lightest,” said the pig in the straw house. “My house is the heaviest,” said the pig in the brick house. How can you tell if an object is heavy or light? Can you find some different materials to build a third house from? The right material needs to be heavier than the straw, but lighter than the bricks. Have you managed to find something? You could try building a model house once you have found a suitable material.</p>	<p><i>Pattern and space problems</i></p> <p>Activity 1 The third little pig wants to make his house from colourful bricks in a pattern. Here is a plan of the bricks to show the size of his house:</p>  <p>Which of these patterns will work to complete the house? You could try drawing out this</p>	<p><i>Number based problems</i></p> <p>Activity 1 Mommy pig has baked some cakes for her three little pigs. She has 6 cakes. How can she share the cakes with the 3 pigs? How many different ways of sharing the cakes can you find? Is each way of sharing fair- do the pigs always end up with the same amount? Nursery you could try sharing 6 toys with you teddys or 3 members of your family to help you.</p>



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Activity 2

If you can- try building two houses from different bricks. One could be Lego, one could be wooden blocks. Which house used more/less bricks? How do you know? Why didn't you need the same amount of bricks to build each house?

Activity 3

There are 3 pigs in the story. If each pig builds 2 houses, Miss Minogue thinks there will be 8 houses altogether. Is she correct? Explain why? Could you use objects or pictures to help you with your explanation.

Activity 4- Reception only

The third little pig is building his house of bricks. On Monday he uses 1 brick. On Tuesday he uses 2 more bricks. On Wednesday he uses 3 more bricks. On Thursday he uses 4 more bricks.

houses? Which shape is the most popular? If you can't get out for a walk, try looking out of your window at the houses in your road.

Activity 2

Can you draw some different houses using the shapes you know. You could use squares, rectangles, triangles, circles.

Miss Ding has never seen a circle shaped house! Why do you think builders don't build circle houses? Are there any other shape houses you think would be tricky to build? Why wouldn't they be good shapes for houses?

Activity 3

The pigs in the story use straw (grass/leaves), sticks and bricks (stones). Can you find some of these natural objects to use in the next activity? You could find these in your garden or collect them from a natural space on your daily walk.

Activity 2

Can you build a chimney (tower shape) for the little pigs house? It needs to be nice and tall so that the wolf can't climb up it. What could you use to build your chimney? You could challenge a grown up or a sibling to build one too! Whose chimney is the tallest? Can you measure them? You could use a ruler or measure using your hand- How many hands tall is it?

Miss Cooper says, "I think I can build a chimney that is taller than me!" Do you think she can? Why might this be a tricky task for Miss Cooper? Could you build a chimney that is taller than you?

Activity 3

Can you find the largest container you have? If you have a bucket, even better! Now can you find cups, jugs, bottles, beakers etc.

house and colouring in the bricks to help you work this out, or if you have any Lego bricks/ building blocks you could try those too.

- Red brick, blue brick
- Red, blue, yellow
- Red, blue, blue
- Yellow, yellow, blue
- Red, red, blue, blue

Another, another, another

Can you find any other colourful patterns that third little pig could use for his house?

Activity 2



If you still have some of the natural materials from earlier in the week, have a go at making some different patterns. If not you could use some objects from around your house like lego or fruit.



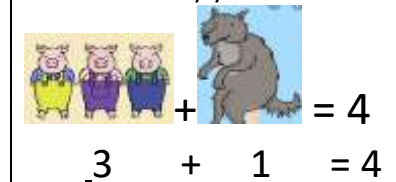
Mommy pig has also made 10 sandwiches to share. How can she share these between the three little pigs? Find as many different ways as you can.

Convince Me

Mrs Clements thinks Mommy pig can share these fairly between the three pigs. Are we right or wrong? Can you show us why you think that?

Activity 2

In the story there are 4 characters. The three little pigs and the Big Bad Wolf. Can you find different ways to group these characters? This is one way you could do it:




$3 + 1 = 4$



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<p>On Friday he uses 5 more bricks. How big is his house at the end of this week? Has he used more or less than 10 bricks? The third little pig makes his house bigger the next week, following the same building pattern. "I only need 30 bricks" said the third little pig. Is he right?</p>	<p>What shapes can you make using these objects? Think about how many sides and corners each shape needs. Can you describe the shape to your family? Take it in turns to describe shapes they have made. Can you guess what shapes your family is making? If you can't find natural objects you could use household objects.</p>	<p>Which item is the best to be able to fill the bucket? How many cupfuls do you think it will take to fill the bucket? Remember this is called an estimate. The bucket is similar to the large pot that was at the bottom of the chimney that the wolf fell into! Ouch! How many cups/jugs, etc did you use to fill it up? Did you guess/ estimate correctly? Extra: Make sure the container is empty. Can you fill the bucket or container with different objects like sticks/bricks/stones/pebbles/st raw/hay/lego Which material do you think will fill the container the quickest? Which material do you think will fill the container slowest? Explain to an adult why you think this. Were you right?</p>	<p>Can you make your pattern repeat? Can you describe your pattern to someone in your family so that they could carry it on? How tricky can you make your pattern? Activity 3 The wolf has found a map to the little pigs houses. (see the attached map). Can you give the wolf directions to get to each little pigs house? Try using words like: Up, down, forwards, backwards, left, right. Always, Sometimes, Never The wolf is getting hungry and impatient, he thinks only using the paths is taking too long and it is quicker to walk through the trees. Is the wolf, always right? Sometimes right? Never right? Try finding some different ways through the woods to get to the houses to prove your thinking.</p>	<p>How many different ways can you do this? Remember the 3 little pigs don't always have to be together. Can you write the number sentence to go with each grouping? You could draw pictures or use toys to represent the characters. Activity 3 The third little pig wants to make sure his house is safe from the wolf. He puts two locks on his door to keep the wolf out.  But his brothers need to get in! They know that when you add the numbers on the two locks together you get the answer 10. What could the two numbers be on the locks? Write down all the combinations you can think of</p>
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				<p>to help the brothers open the locks. You could use drawings or objects to help you count to work this one out.</p>
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