

Year 3 Nightingales Homework Grid – Autumn 1 Choose one activity each week until the end of term.

Maths The Great Place Value Number Hunt! Your Mission: Become a Number Detective! This week, you will explore how numbers are built using Hundreds, Tens, and Ones. Question 1: Hunt for Tens and Ones: Look around your home for objects you can group together. Find 24 of something (like buttons, legos, or pasta pieces). Group them into tens and ones. ○ <i>Write down:</i> 24 = __ tens and __ ones. ○ <i>Bonus:</i> Try it again with a bigger number, like 58! Question 2: The Mystery Number Riddle: Read these clues to find the secret three-digit numbers. Write down the numbers you discover! ○ <i>Riddle 1:</i> I have 3 hundreds, 5 tens, and 2 ones. What number am I? ○ <i>Riddle 2:</i> I have 6 hundreds, 0 tens, and 9 ones. What number am I? ○ <i>Riddle 3:</i> I have 4 hundreds, 12 tens, and 5 ones. (Careful, this one is tricky!). What number am I? Question3: The Partitioning Robot: Robots love breaking numbers apart! Copy these numbers onto your paper and break them down into hundreds, tens, and ones. ○ <i>Example:</i> 145 = 100 + 40 + 5 ○ Now you try: 263, 407, 780, and 999! Question 4: The Greater Than / Less Than Challenge: Use the crocodile mouth signs > (greater than) or < (less than) to compare these numbers. Remember, the crocodile always wants to eat the bigger number! ○ 132 ____ 123 ○ 485 ____ 489 ○ 701 ____ 699 ○ Write a short sentence explaining <i>how</i> you know which number is bigger by looking at the place value. Question 5: Create a Monster Number: Roll a dice three times (or pick three random numbers from 0 to 9). ○ Make the biggest three-digit number you possibly can with your digits. ○ Make the smallest three-digit number you can. ○ Draw a funny "Number Monster" and write your numbers inside it!	English Diary of a Brave Polar Explorer Your Mission: Pretend you are an explorer traveling across Antarctica. You will write a short diary entry each day to tell people back home about your adventures! Monday (Day 1 - We Arrive!): Write about sailing into the ice. What do the giant, blue icebergs look like? What does it sound like when your ship crunches through the frozen sea? Tuesday (Day 2 - Camp Life): Write about setting up your tent on the snow. How cold does the wind feel on your face? How many pairs of socks do you have to wear to keep your toes warm? Wednesday (Day 3 - Animal Friends): You meet some local wildlife today! Write about seeing a group of penguins or a big, sleepy seal. What are they doing? Do they make funny noises? Thursday (Day 4 - The Big Snowstorm): A huge blizzard hits! You have to stay inside your tent. Use strong adjectives to describe the storm. How does the wind sound? How do you stay brave? Friday (Day 5 - Going Home): The storm stops and the sun comes out. It is time to go home. Write about what you will miss the most, and what you want to eat first when you get back!	Geography The Antarctica Map Project Your Mission: Imagine you are an explorer! This week, you will make your own colourful map and survival guide for Antarctica. Step1: (Weather Check): Find out how cold it gets in Antarctica. Write down three cool facts about the ice, the wind, or the weather there. Step 2: (Draw Your Map): Draw a big outline of Antarctica on a large piece of paper. Label these important places: the South Pole, the Southern Ocean, and Mount Erebus (a real volcano covered in ice!). Step 3: (Add the Animals): Find out where animals live in Antarctica. Draw and colour at least three animals (like penguins, seals, or whales) onto your map in the places where they live. Step 4: (Pack Your Bags): On a new page, make a 'Survival Guide.' Draw and label the clothes and tools you would need to stay warm and safe in the freezing cold. Step 5: (Make it Beautiful): Colour in your map! Don't forget to colour in the ocean and all you drawings. Give your map a big, bold title at the top.
Science The Secret Agent Shadow Mission! Your Mission: Become a Shadow Scientist! You will explore how light travels, how shadows are made, and how they change. 1. The Light Source Safari: Explore your home to find different light sources. Make a list of at least 5 things that make their own light (like a torch, a lamp, or the sun).	P.E. The Active Match-Day Challenge! Your Mission: Become an elite athlete! This week, you will train your body, practice your ball skills, and create your very own team celebration. You can use a football, a rugby ball, or any bouncy ball you have at home.	Art The Master Sketcher Challenge! Your Mission: Train your eyes and hands to draw like a professional artist! This week, you will learn how to look closely at shapes, create shadows, and bring your drawings to life using just a normal pencil and paper.

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- **Super Challenge:** Next to each item, write down if it is **natural** (made by nature) or **artificial** (made by humans).
- 2. **The Mystery Material Test:** Shadows are made when an object blocks light. Find three different objects in your house: something clear (like a glass cup), something plastic/blurry (like a coloured plastic bottle), and something solid (like a book or a shoe). Shine a torch on them against a wall.
 - **Write down:** Which object made the **darkest, sharpest shadow**? Which object let the light pass right through it?
- 3. **The Incredible Growing Shadow:** Put a toy on a table and shine a torch at it to make a shadow on the wall.
 - First, move the torch **closer** to the toy. What happens to the size of the shadow?
 - Next, move the torch **further away** from the toy. What happens now?
 - **Write down:** Finish this sentence: "*When the light source gets closer to an object, the shadow gets...*"
- 4. **The Sun Clock Challenge:** Find a safe spot outside in the morning (or next to a sunny window). Place a small stick or a tall toy on a piece of paper. Draw a line over its shadow and write the time next to it. Check it again at lunchtime and again in the afternoon.
 - **Write down:** Did the shadow stay in the same place? Why do you think the shadow moved? (Hint: Think about what the sun is doing in the sky!)
- 5. **Shadow Puppet Theatre:** Use your hands or cut out paper shapes glued to lolly sticks to create your own shadow puppets! Use a torch in a dark room to put on a mini-show for someone at home.
 - **Write down:** Draw a picture of your favourite shadow puppet and explain how you blocked the light to make it.

- **Monday (The Agile Footwork Warm-Up):** Great players need fast feet! Put down two markers on the ground (like two socks) about three big steps apart.
 - **The Task:** Side-shuffle as fast as you can from one sock to the other, touching the ground at each side. Do this for **30 seconds** without stopping. Repeat it 3 times!
 - **Write down:** How many times did you touch the ground in 30 seconds?
- **Tuesday (The Perfect Control Test):** Choose your sport challenge:
 -  **Football Track:** Stand still and see how many "keepie-uppies" or small taps you can do using just your feet or thighs before the ball drops. Or, practice tapping the ball gently between your left foot and right foot 20 times.
 -  **Rugby Track:** Hold the ball tightly in two hands. Practice tossing it up lightly into the air, clapping your hands once, and catching it safely against your chest. Try to do this 15 times without dropping it!
- **Wednesday (The Target Passing Drill):** Set up a target against an outside wall or a safe space (like an empty plastic bottle or a washing basket). Step five big paces away from your target.
 -  **Football Track:** Practice passing the ball accurately using the *inside* of your foot to knock down the target.
 -  **Rugby Track:** Practice your spin or pop pass from your chest using both hands to land the ball inside the target area.
 - **Write down:** Out of 10 tries, how many times did you hit your target?
- **Thursday (The Speed and Fitness Sprint):** Build up your match endurance! Mark out a starting line and a turning line about 10 big steps apart.
 - **The Task:** Sprint from the start to the turn and back as fast as you can. Do this **5 times** in a row.
 - **Write down:** Ask someone at home to time you with a stopwatch. How many seconds did it take you to finish all 5 sprints?
- **Friday (The Match-Winning Celebration):** Imagine you have just scored the winning goal or try in the World Cup final!
 - **The Task:** Design your own **10-second celebration dance, pose, or routine** (like a massive leap, a slide, or a funny robot dance).
 - **Show your moves:** Perform your victory celebration for someone at home, or draw a picture of your winning pose in your homework book!

- **The Line Control Warm-Up:** Before an artist draws, they have to warm up their hands! On a piece of paper, practice drawing these lines without using a ruler:
 - Draw 5 long, straight lines across the page.
 - Draw 5 perfect spirals that start tiny and get bigger.
 - Draw 3 zig-zag lines that look like sharp mountain peaks.
 - **Tip:** Try to keep your hand steady and don't press down too hard!
- **The Pencil Shading Scale:** Did you know your pencil can make many different shades of grey? Draw a long rectangle bar and split it into **5 equal boxes** in a row.
 - Leave the first box completely white.
 - Press as softly as a feather to colour the second box light grey.
 - Press a bit harder for each next box until the last box is as dark as charcoal!
- **The Continuous Line Object:** Pick a simple object from your kitchen (like a mug, a spoon, or an apple). Put it on the table in front of you.
 - **The Challenge:** Try to draw the object **without lifting your pencil off the paper even once!** Your pencil must stay glued to the page from start to finish.
 - Don't worry if it looks a bit messy—this teaches your eyes and hands to work together perfectly.
- **The 3D Shadow Trick:** Find a small, round object like an orange, an egg, or a ball. Place it under a lamp or near a bright window so you can see a shadow on one side of it.
 - Draw a neat circle on your page.
 - Use your shading skills from Tuesday to add dark shadows on one side of the circle, and leave the other side bright.
 - **Magical Result:** Watch your flat circle turn into a 3D ball that looks like it is popping off the page!
- **The Masterpiece Showcase:** Look out of your window or sit in your favourite room. Pick one view or object that you think looks interesting.
 - Take your time to create a beautiful, detailed drawing of it using everything you learned this week: steady lines, light and dark shading, and real shadows.
 - Sign your name at the bottom corner just like a famous artist!