Bowmansgreen Primary School
Year 4 – Home Learning Grid
Spring Term 1

Choose one Home Learning activity to complete each week. You can choose which task to complete and the order in which you do so. Once you have completed an activity, please ask a parent/carer to initial and date in the appropriate space. You may wish to include photographs of larger pieces of work and/or practical activities. Home learning is to be handed in by **Tuesday** each week.

Task One	Task Two	Task Three	Task Four
You will need to research facts about George Stephenson using this BBC weblink (http://www.bbc.co.uk/schools/primaryhistory/famouspeople/george_stephenson/) and create a fact file using the following headings • his early life • the first railways • his famous locomotive the rocket. You must include at least eight facts. Challenge! Create a timeline for the important events in George, and his son Robert lives. *Parent/carer signature and date:* …………………………………………………………	Using a blank piece of A4 paper, create your own version of the famous painting by J M W Turner called Rain, Steam and Speed. (https://www.nationalgallery.org.uk/server.iip?FIF=/fronts/N-0538-00-000022-WZ-PYR.tif&CNT=1.0&WID=800&HEI=800&QLT=85&CVT=jpeg) You can use paint, coloured pencil or crayons. Do not stick these in as we will create a display with them. Challenge! How does this painting make you feel? Write a brief explanation no more than 5 sentences. *Parent/carer signature and date:* …………………………………………………………	Using this website, http://www.nrm.org.uk/ourcollection/york-highlights create an information poster for the railway museum in York. They would like a poster to share information about one of the following locomotives: • The Mallard • The Rocket • The Flying Scotsman • The Evening Star. Please include information about: • When it was built • What speed it could travel at • Who built it • Something it was famous for Challenge! Draw and label a picture of your chosen locomotive, within your poster. *Parent/carer signature and date:* …………………………………………………………	Read the information on changes of state using this BBC website (http://www.bbc.co.uk/bitesize/ks2/science/materials/changing_states/read/2/) Create a scientific word search using the vocabulary in bold. Challenge! Choose three of the following words and write a scientific explanation to explain what they mean: precipitation; condense, evaporate, particles and molecules. *Parent/carer signature and date:* …………………………………………………………
Task Five	**Task Six**	**Task Seven**	**Task Eight**
Let's say you are an engineer. You have been tasked with launching a new train. Write and draw a description of your new locomotive, explaining how it travels and what it looks like. Challenge! Make a model of your locomotive using a variety of materials. *Parent/carer signature and date:* …………………………………………………………	Draw a diagram of how steam trains work using this weblink (http://www.explainthatstuff.com/steamengines.html). Label it in detail and explain briefly how it operates. Challenge! Write a detailed paragraph comparing steam locomotives and modern electric locomotives. Which one do you think is best? Explain your answer. *Parent/carer signature and date:* …………………………………………………………	Observe and record (in a table like the one below) 5 ways in which materials change their states in the home for example:- <table><tr><td>Material</td><td>Solid Liquid Gas</td><td>Change</td><td>Solid Liquid Gas</td></tr><tr><td>Butter</td><td>Solid</td><td>Melting on toast</td><td>Liquid</td></tr></table> Challenge! Draw and label a diagram for each change. *Parent/carer signature and date:* …………………………………………………………	In computing we will be looking at programming and games this term. Using **online logo** (http://www.transum.org/software/Logo/), create a cloud burst using code. Some examples are given for you to remind you of what we have done in class Challenge! Can you complete Challenge 4 and use the repeat command to draw a square? *Parent/carer signature and date:* …………………………………………………………