

## **Year 6 Autumn & Winter Home Learning Grid**

Pick an activity to complete each day or week. Aim for one hour of focused work.

1	2	3
<b>Maths – Conker Fractions:</b> Collect 12 conkers (or use coins/buttons). Split them into halves, quarters, and thirds. Write down and simplify the fractions. Can you create and solve 10 fraction word problems for a partner using your conkers?	<b>History – Life in WWII Winter:</b> Research (using books or family knowledge, not the internet) how families in Britain coped during a cold winter in WWII. Write a diary entry for one winter's day as if you were an evacuee. Include at least 5 historical facts.	<b>Art – Frosty Patterns:</b> On black paper (or card), use white pencil/chalk to create symmetrical snowflake designs. Each snowflake must show rotational or reflective symmetry. Label the lines/angles of symmetry.
4	5	6
<b>Geography – Weather Log:</b> Keep a weather diary for 5 days. Record temperature, rainfall, wind direction. At the end, present your findings in a bar or line graph. Write a short conclusion: how does our autumn/winter weather compare with another country in Europe?	<b>Maths – Winter Word Problems:</b> Create 6 multi-step SATs-style word problems using autumn/winter settings (e.g., sledges, snow, firewood, mittens). Solve them carefully, showing all working out.	<b>Science – Insulation Test:</b> Test which material (foil, fabric, paper, plastic) keeps hot water warm longest. Pour equal amounts into 4 cups, wrap them differently, and test every 10 minutes. Record in a table, then explain which insulator worked best and why.
7	8	9
<b>Design &amp; Technology – Bird Feeder:</b> Using recycled bottles/cartons, design and make	<b>History – Autumn Archaeologist:</b> Imagine you found a Roman coin while kicking through	<b>Wellbeing – Gratitude Leaves:</b> Cut out 10 paper leaf shapes. On each, write something you're

7	8	9
a bird feeder to help wildlife in winter. Write and sketch step-by-step instructions for another child to follow.	leaves. Write a report describing what it looks like, what it might have been used for, and what it tells us about Roman life. Add an illustration.	grateful for this autumn/winter. Hang them up as a "gratitude tree." Then write a reflection on how noticing positives can improve wellbeing.
10	11	12
<b>Maths – Snowflake Perimeter Challenge:</b> Draw a large snowflake with straight lines only. Measure and calculate the total perimeter. Challenge: can you design one with a perimeter of exactly 50cm?	<b>Science – Melting Ice Race:</b> Freeze 3 ice cubes. Place one in salt, one in sugar, and one on its own. Predict which will melt fastest and time them. Record your results in a bar chart and explain the science behind melting and dissolving.	<b>Art/DT – Winter Collage:</b> Collect natural autumn/winter items (leaves, twigs, berries – not poisonous!). Arrange them into a collage of an animal preparing for winter. Label features of your design that show camouflage, strength, or texture.
13	14	15
<b>Geography – Map Skills:</b> Draw a map of your local area showing at least 10 landmarks (parks, shops, bus stops). Add a key and compass points. Challenge: draw a route you'd take for a winter walk and calculate the distance using a scale.	<b>History – Viking Winter Feast:</b> Research how Vikings celebrated Yule (use library books if possible). Write a menu for a winter feast including at least 6 authentic foods. Add illustrations and a short introduction explaining Viking traditions.	<b>Wellbeing – Winter Walk Mindfulness:</b> Go for a 30-minute walk. Notice 5 things you can see, 4 things you can hear, 3 things you can touch, 2 things you can smell, and 1 thing you feel. Write a poem or paragraph about the experience.
16	17	18
<b>Design &amp; Technology – Winter Shelter:</b> Using card, sticks, or Lego, design and build a model of	<b>Maths – Firewood Ratio Challenge:</b> Imagine a family needs 24 logs for a week. Work out how	<b>Science – Shadows in Winter:</b> At 3 different times of day, measure the length

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a shelter for an animal in winter. Test its strength (can it hold a small weight?). Write an evaluation explaining what worked and how you'd improve it.

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many logs they'd need for 5 weeks, 12 weeks, and half a year. Write at least 5 ratio and proportion word problems using the idea of "firewood."

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of your shadow. Record and plot results in a graph. Write an explanation: why are shadows longer in winter than summer?