Here are a range of activities/websites linked to our Science topic on properties and changes of materials. Children can pick the level of challenge they would like to complete and can record in their work book or even do some of their activities on Purple Mash and save them in their personal folders. The activities are staged at different challenge levels. The higher the star rating, the more tricky and/or more resources/time are required to complete the task.

I have also included some OPTIONAL EXTENSION TASKS should you wish to challenge yourself further.

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| **Challenge Level** | **Activities**  **WC 11-05-20** | **Activities**  **WC 18-05-20** |  |  |
|  | For this week’s work, you will need:  5 or 6 feely bags filled with different materials, placed around the room. Suitable materials could include a copper coin, a steel paper clip, a rock, a slate, a wooden spoon, a piece of tracing paper, a safety mirror, a plastic ruler. Different materials for children to test.  (Ideas as above) Magnets Small metal nails Goggles Jars or beakers Elastic bands Empty trays Measuring jugs Water  You will be testing the properties of the different materials; testing each material for magnetism, hardness transparency, flexibility and permeability.  You should follow the instructions for each test on your differentiated **Testing Properties** **Activity Sheet** and test each different material. You should record then record your results on their differentiated **Testing Properties Activity Sheet.** | For this week’s work, you will need:  Containers  Thermometers  Ice cubes  Rulers  Stopwatches  Different materials  **New Keywords/Vocabulary**  Thermal, conductor, insulator, heat,  material, variable  You are going to plan your own investigation on your differentiated Investigating Materials  Activity Sheet. Once you have done so, you should set up and carry out your investigation, recording  their results on your differentiated Investigating Materials Activity Sheet |  |  |
| **\*** | Follow the full instructions for each test. | Use prompts and list of variables to scaffold your planning. |  |  |
| **\*\*** | Devise your own instructions for testing magnetism and transparency. | Explain your prediction with reference to  thermal conductors and insulators. |  |  |
| **\*\*\*** | Devise their own instructions for testing magnetism  and transparency and think of a use for each material based on its properties.  **EXTENSION TASK-OPTIONAL**  Complete the definitions sheet. | Use your results to make further predictions and  generalisations.  **EXTENSION TASKs- OPTIONAL**  Make a collage of different materials you could find around your classroom or home.  Will a snowman melt faster with or without a coat on? Use what you know about thermal conductors and insulators to make a prediction, then test it by wrapping ice cubes in ‘coats’ made of different materials. |  |  |

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| **Useful Websites** |
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