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| Theme | **Mighty Materials (Junior Classes)** |
| Curriculum | **Strand:** Materials**Strand Unit:** Properties and Characteristics of Materials **Curriculum Objectives:** Investigate materials for different properties, e.g. materials that absorb water and those that are waterproof.**Skills Development:** Carry out simple investigations set by the teacher, carry out observations and collect data.  |

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| Engage |
| The Trigger | Wondering | Exploring |
| Oops, I knocked over my glass of water and some of it spilled on the table. | I wonder what we could use to clean up the spill? Brainstorm ideas.Discuss what we use in everyday life. | Explore/manipulate the materials provided (or choose your own selection):* Plastic bag
* Newspaper
* Kitchen Roll
* Magazine

Discuss what each material is like (properties)? * Similarities/differences?
* Do you know what it is – have you seen it or used it before?
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| Investigate |
| Starter Question | Predicting | Conducting the Investigation | Sharing: Interpreting the data / results |
| Which of these materials would work best to clean up (soak up) the water? But what do we mean by ‘best’:* + Most absorbent?
	+ Strongest?
	+ Softest?
 | Predict which material will clean up the water based on previous knowledge and having explored the materials provided. | Select the material you predicted to be ‘the best’. * Does it soak up any water?
* Does it soak up ALL the water?
* Does it soak up the water quickly?
* Now try the other materials.
* Are they as good or as bad as you thought?
* Record your findings (e.g. smiley / sad faces)

Keep FAIR TESTING in mind. | Discuss and show results.Compile class results and represent them visually e.g. on a pictogram. |

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| Take The Next Step |
| Applying Learning | Making Connections | Thoughtful Actions |
| * Apply what you have learned to a follow up investigation to determine which brand of kitchen roll or toilet paper that absorbed the ‘best’.
* When would it be important in everyday life to know which materials are good absorbers?
* Can you think of any examples outside the home where absorbent material is important?
* What would the other materials you explored be good for?
* Design and Make a waterproof coat for Teddy.
* Make a list of all the new words we learned today.
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| Reflection | * Did I meet my learning objectives?
* Are the children moving on with their science skills?
* Can the children use the words absorbent and waterproof correctly?
* Are there cross curriculum opportunities here?
* What went well, what would I change?
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