| <u>Year 5– National Curriculum Science Objectives/possible ideas – 2017/18</u> | |
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| Shipwrecked | Musical Minds |
| Animals, including humans | Working Scientifically |
| Describe the changes as humans develop to old age | |
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| How to train a dragon | I can change the world |
| Forces | Properties and changes of materials |
| Explain that unsupported objects fall towards the Earth because of | Compare and group together everyday materials on the basis of their |
| the force of gravity acting between the Earth and the falling object. | properties, including their hardness, solubility, transparency, |
| | conductivity (electrical and thermal), and in response to magnets. |
| Idetnify the effects of air resistance, water resistance and friction, | |
| that act between moving surfaces. | Know that some materials will dissolve in liquid to form a solution, |
| | and describe how to recover a substance from a solution. |
| Recognise that some mechanisms, including levers, pulleys and | |
| gears, allow a smaller force to have a greater effect. | Use knowledge of solids, liquids and gases to describe how mixtures |
| | might be separated, including through filtering, sieving and |
| | evaporating. |
| | Give reasons, based on evidence from comparative and fair tests, for |
| | the particular use of everyday materials, including metals, wood and |
| | plastic. |
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| | Demonstrate that dissolving, mixing and changes of state are |
| | reversible changes. |
| | Eveloin that some abances result is the formation of some statistic |
| | Explain that some changes result in the formation of new materials |
| | and that this kind of change is not usually reversible, including |
| | changes associated with burning and the action of acid on |
| | bicarbonate of soda. |

| Into the woods | Superheroes |
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| All living things and their habitats | Earth and Space |
| Describe the difference in the life cycles of a mammal, an amphibian, | Describe the movement of the Earth, and other planets, relative to |
| an insect and a bird. | the sun in the solar system. |
| Describe the life process of reproduction in some plants and animals. | Describe the movement of the Moon relative to the Earth. |
| | Describe the sun, Earth and Moon as approximately spherical bodies. |
| | Use the idea of the Earth's rotation to explain day and night and the |
| | apparent movement of the sun across the sky. |
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