

**Martlesham Primary Academy**  
**Science Vocabulary Progression**



To note:

- Tier 2 words are used progressively through the year and through the year groups. Children may be exposed to some Tier 2 words in the year before or year after due to the mixed-age class requirements at Martlesham Primary Academy.
- Tier 3 words are subject-specific and relate to the area which is being taught. These words are used to increase the children's vocabulary bank.

**Working Scientifically – Tier 2 vocabulary**

| EYFS        | Year 1    | Year 2     | Year 3       | Year 4     | Year 5    | Year 6              |
|-------------|-----------|------------|--------------|------------|-----------|---------------------|
| Investigate | Equipment | Observe    | Fair test    | Enquiry    | Effect    | Causal relationship |
| Discuss     | Compare   | Identify   | Record       | Systematic | Variables | Hypothesis          |
| Question    | Contrast  | Classify   | Measurements | Present    | Justify   |                     |
|             | Table     | Diagram    |              |            | Evidence  |                     |
|             | Similar   | Data       |              |            |           |                     |
|             | Different | Predict    |              |            |           |                     |
|             | Describe  | Results    |              |            |           |                     |
|             |           | Conclusion |              |            |           |                     |

**Plants**

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| EYFS     | Year 1<br>Roots, Shoots and Fruits<br>(covered next year) | Year 2<br>Grow, Thrive and Survive<br>(covered next year) | Year 3<br>Plant Nutrition and Reproduction | Year 4 | Year 5 | Year 6 |
|----------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|--------|--------|--------|
| Grow     | Stem                                                      | Bulb                                                      | Pollination                                |        |        |        |
| Change   | Fruit                                                     | Bark                                                      | Seed dispersal                             |        |        |        |
| Sunlight | Trunk                                                     | Annual                                                    | Carpel                                     |        |        |        |
|          | Petal                                                     | Seasonal                                                  | Ovary                                      |        |        |        |
|          | Deciduous                                                 | Germinate                                                 | Pollen                                     |        |        |        |
|          | Evergreen                                                 | Shoot                                                     | Sepal                                      |        |        |        |
|          |                                                           | Habitat                                                   | Stamen                                     |        |        |        |
|          |                                                           |                                                           | Style                                      |        |        |        |
|          |                                                           |                                                           | Photosynthesis                             |        |        |        |

**Animals Including Humans**

| EYFS        | Year 1<br>Fur, Feathers and Fins (covered next year)<br>Seeing, Smelling, Sensing | Year 2<br>Healthy Humans<br>Hide, Hunt and Survive | Year 3<br>Eat Well, Move Well | Year 4<br>Food and the Digestive System<br>(covered next year) | Year 5<br>Human Reproduction and Ageing | Year 6<br>Circulatory System |
|-------------|-----------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------|----------------------------------------------------------------|-----------------------------------------|------------------------------|
| Butterfly   | Amphibians                                                                        | Elderly                                            | Ribs                          | Apex Predator                                                  | Adolescent                              | Arteries                     |
| Caterpillar | Reptiles                                                                          | Nutrients                                          | Humerus                       | Digestion                                                      | Puberty                                 | Veins                        |
| Insect      | Mammals                                                                           | Healthy                                            | Pelvis                        | Oesophagus                                                     | Reproduction                            | Capillaries                  |
| Bug         | Carnivore                                                                         | Hygiene                                            | Femur                         | Intestines                                                     | Gestation Period                        | Carbon Dioxide               |
| Minibeast   | Herbivore                                                                         | Germ                                               | Biceps                        | Absorbed                                                       | Embryo                                  | Platelets                    |
|             | Omnivore                                                                          | Shelter                                            | Triceps                       | Molar                                                          | Foetus                                  | Atrium                       |
|             | Senses                                                                            | Carbohydrate                                       | Organ                         | Canine                                                         | Arthritis                               | Ventricle                    |
|             |                                                                                   | Protein                                            | Contract                      | Incisor                                                        |                                         | Aorta                        |

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|  |  |               |              |              |  |             |
|--|--|---------------|--------------|--------------|--|-------------|
|  |  | Dairy         | Exoskeleton  | Wisdom Teeth |  | Vena Cava   |
|  |  | Fats          | Endoskeleton | Enamel       |  | Respiration |
|  |  | Balanced Diet |              | Decay        |  | Nicotine    |
|  |  | Life Cycle    |              |              |  |             |

**Everyday Materials**

| <b>EYFS</b> | <b>Year 1<br/>Marvellous<br/>Materials</b> | <b>Year 2<br/>Bend It, Stretch It,<br/>Shape It (covered<br/>next year)</b> | <b>Year 3<br/>Rocks</b> | <b>Year 4<br/>States of Matter<br/>(covered next<br/>year)</b> | <b>Year 5<br/>Properties and<br/>Changes of<br/>Materials</b> | <b>Year 6</b> |
|-------------|--------------------------------------------|-----------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------|---------------------------------------------------------------|---------------|
| Stretchy    | Materials                                  | Absorbent                                                                   | Sedimentary             | Particles                                                      | Filter                                                        |               |
| Stiff       | Natural                                    | Stretchy                                                                    | Igneous                 | Evaporation                                                    | Filtration                                                    |               |
| Bendy       | Human-made                                 | Waterproof                                                                  | Metamorphic             | Condensation                                                   | Insoluble                                                     |               |
| Rough       | Properties                                 | Recyclable                                                                  | Magma                   | Boiling Point                                                  | Soluble                                                       |               |
| Smooth      |                                            |                                                                             | Permeable               | Melting Point                                                  | Solvent                                                       |               |
| Shiny       |                                            |                                                                             | Impermeable             | Thermometer                                                    | Solute                                                        |               |
|             |                                            |                                                                             | Granite                 |                                                                | Solution                                                      |               |
|             |                                            |                                                                             | Extinct                 |                                                                | Homogeneous                                                   |               |
|             |                                            |                                                                             | Palaeontology           |                                                                | Heterogeneous                                                 |               |
|             |                                            |                                                                             | Porous                  |                                                                | Thermal<br>Conductor                                          |               |
|             |                                            |                                                                             |                         |                                                                | Thermal Insulator                                             |               |

**Seasonal Changes**

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| EYFS    | Year 1<br>Weather Quest | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---------|-------------------------|--------|--------|--------|--------|--------|
| Weather | Summer                  |        |        |        |        |        |
|         | Winter                  |        |        |        |        |        |
|         | Autumn                  |        |        |        |        |        |
|         | Spring                  |        |        |        |        |        |
|         | Hail                    |        |        |        |        |        |
|         | Sleet                   |        |        |        |        |        |
|         | Fog                     |        |        |        |        |        |

**Living Things and Their Habitats**

| EYFS         | Year 1 | Year 2<br>Homes, Hides and<br>Habitats (covered<br>next year)<br>Hide, Hunt and<br>Survive | Year 3 | Year 4<br>Grouping and<br>Classifying<br>(covered next<br>year) | Year 5<br>Human<br>Reproduction and<br>Ageing | Year 6<br>Evolution and<br>Inheritance |
|--------------|--------|--------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| Sea creature |        | Habitat                                                                                    |        | Classification Key                                              | Larva                                         | Micro-organism                         |
| Seaside      |        | Microhabitat                                                                               |        | Vascular                                                        | Pupa                                          | Monera                                 |
| Coastline    |        | Producer                                                                                   |        |                                                                 | Embryo                                        | Protista                               |
| Ocean        |        | Consumer                                                                                   |        |                                                                 | Metamorphosis                                 | Fungus                                 |
|              |        | Predator                                                                                   |        |                                                                 | Sexual<br>Reproduction                        |                                        |
|              |        | Prey                                                                                       |        |                                                                 | Asexual<br>Reproduction                       |                                        |
|              |        | Invertebrate                                                                               |        |                                                                 | Fertilisation                                 |                                        |
|              |        | Reproduce                                                                                  |        |                                                                 | Sperm                                         |                                        |
|              |        | Life Cycle                                                                                 |        |                                                                 |                                               |                                        |

**Light**

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| EYFS   | Year 1 | Year 2 | Year 3<br>Sunlight and<br>Shadows | Year 4 | Year 5 | Year 6<br>Light Theory |
|--------|--------|--------|-----------------------------------|--------|--------|------------------------|
| Light  |        |        | Reflect                           |        |        | Cornea                 |
| Shadow |        |        | Reflector                         |        |        | Iris                   |
| Object |        |        | Transparent                       |        |        | Lens                   |
|        |        |        | Translucent                       |        |        | Retina                 |
|        |        |        | Opaque                            |        |        | Pupil                  |
|        |        |        |                                   |        |        | Convex                 |
|        |        |        |                                   |        |        | Concave                |

**Forces**

| EYFS    | Year 1 | Year 2 | Year 3<br>Forces and<br>Magnets | Year 4 | Year 5<br>Forces and<br>Mechanisms | Year 6 |
|---------|--------|--------|---------------------------------|--------|------------------------------------|--------|
| Magnet  |        |        | Force                           |        | Gravity                            |        |
| Attract |        |        | Repel/Repulsion                 |        | Mass                               |        |
|         |        |        | Newton                          |        | Air Resistance                     |        |
|         |        |        | Friction                        |        | Water Resistance                   |        |
|         |        |        | Pole                            |        | Mechanism                          |        |
|         |        |        |                                 |        | Lever                              |        |
|         |        |        |                                 |        | Pulley                             |        |
|         |        |        |                                 |        | Gear                               |        |

**Sound**

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| EYFS  | Year 1 | Year 2 | Year 3 | Year 4<br>Sound<br>(covered next year) | Year 5 | Year 6 |
|-------|--------|--------|--------|----------------------------------------|--------|--------|
| Sound |        |        |        | Amplitude                              |        |        |
| Hear  |        |        |        | Pitch                                  |        |        |
|       |        |        |        | Vibration                              |        |        |
|       |        |        |        | Sound Wave                             |        |        |
|       |        |        |        | Frequency                              |        |        |
|       |        |        |        | Decibel                                |        |        |

**Electricity**

| EYFS | Year 1 | Year 2 | Year 3 | Year 4<br>Electrical Circuits<br>and Conductors<br>(covered next year) | Year 5 | Year 6<br>Electrical Circuits<br>and Components |
|------|--------|--------|--------|------------------------------------------------------------------------|--------|-------------------------------------------------|
|      |        |        |        | Mains                                                                  |        | Current                                         |
|      |        |        |        | Cell                                                                   |        | Voltage                                         |
|      |        |        |        | Circuit                                                                |        | Series Circuit                                  |
|      |        |        |        | Components                                                             |        | Open Switch                                     |
|      |        |        |        | Electrical<br>Conductor                                                |        | Closed Switch                                   |
|      |        |        |        | Electrical Insulator                                                   |        | Terminals                                       |
|      |        |        |        |                                                                        |        | Electrons                                       |

**Earth and Space**

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|------|--------|--------|--------|--------|--------|--------|
|------|--------|--------|--------|--------|--------|--------|

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|  |  |  |  |  | <b>Our Place in Space</b> |  |
|--|--|--|--|--|---------------------------|--|
|  |  |  |  |  | Axis                      |  |
|  |  |  |  |  | Waxing                    |  |
|  |  |  |  |  | Waning                    |  |
|  |  |  |  |  | Crescent                  |  |
|  |  |  |  |  | Gibbous                   |  |
|  |  |  |  |  | Orbit                     |  |
|  |  |  |  |  | Lunar                     |  |

**Evolution and Inheritance**

| <b>EYFS</b> | <b>Year 1</b> | <b>Year 2</b> | <b>Year 3</b> | <b>Year 4</b> | <b>Year 5</b> | <b>Year 6<br/>Evolution and Inheritance</b> |
|-------------|---------------|---------------|---------------|---------------|---------------|---------------------------------------------|
|             |               |               |               |               |               | Evolution                                   |
|             |               |               |               |               |               | Adaptation                                  |
|             |               |               |               |               |               | Inherited                                   |
|             |               |               |               |               |               | DNA                                         |
|             |               |               |               |               |               | Variation                                   |