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| Year 3 Science: It Getting Hot In Here | Name: |

**Purpose:** To use knowledge of materials and the behaviour of heat to explain observations and to identify that science uses investigations to answer questions. To follow investigation procedures to collect quantitative data, to represent data and consider the fairness of the investigation.

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| **Science Understanding** | | **Science as a Human Endeavour** | | **Technology Skills** | | | |  |
| **Physical sciences** | | **Planning and conducting Processing and analysing data and information** | | **Design and Technologies** | | **Digital Technologies** | |  |
| **Uses knowledge of materials and the behaviour of heat to explain observations** | | **Follows procedures to collect data; uses formal measurements**  **Represents data in a way that helps solve the problem** | | **Explores the characteristics of materials and components that are used to produce design solutions** | | **Collect, assess and present different types of data using simple software to create information and solve problems** | |  |
| ◄ | Justifies heat transfer based on materials and differences in heat energy. | ◄ | Represents data accurately.  Analyses data quantitatively. | ◄ | Justifies selected materials throughout the course of the assessment based on information collected. | ◄ | Able to use a variety of software programs to successfully and appropriately represent their data and design solutions and able to justify these choices | A |
|  |  |  |  |  |  |  |  | B |
| ◄ | Uses knowledge of materials and the behaviour of heat to explain observations. | ◄ | Follows procedures to collect data, using formal measurements.  Represents data in a way that helps solve the problem. | ◄ | Can provide some explanation for the use of materials in design brief. | ◄ | Moderate use of software programs to represent their data and design solutions. | C |
|  |  |  | Collects data. | ◄ | Little explanation provided for the use of materials in design briefs |  |  | D |
| ◄ | Identifies a source of heat. | ◄ | Makes observations. | ◄ | Selects materials to use in design brief. | ◄ | Limited use of software to represent data and design solutions. | E |