

# What I need to know: Y5 ICT – Data Handling 1

*We nurture the curiosity to learn, the courage to lead and the compassion to care.*

Name:

Class:

This term we are thinking about data handling, binary code and Mars Rover

What I will know...	✓	Start	End
The meanings of 'data' and 'transmit'.		<input type="radio"/>	<input type="radio"/>
The challenges of transmitting data over large distances.		<input type="radio"/>	<input type="radio"/>
What numbers using binary code look like and be able to identify how messages can be sent in this format.		<input type="radio"/>	<input type="radio"/>
Recognise that computers transfer data in binary and understanding simple binary addition		<input type="radio"/>	<input type="radio"/>
The difference between computer input and output.		<input type="radio"/>	<input type="radio"/>
That binary is the main means of all data transfer.		<input type="radio"/>	<input type="radio"/>
That data transfer between computer operated machines needs a common language.		<input type="radio"/>	<input type="radio"/>
I can use binary to create a written message.		<input type="radio"/>	<input type="radio"/>

Skills I may use...	
<b>Remember:</b> name, identify, describe	<b>Analyse:</b> investigate, infer, select, clarify
<b>Understand:</b> predict, recall, interpret	<b>Create:</b> plan, design, construct
<b>Apply:</b> use, show, relate, demonstrate	<b>Evaluate:</b> compare, assess, judge

Vocabulary I need to know...		
1. I have heard the word, but I don't know what it means	2. I understand what the word means	3. I can explain what the word means and give other examples
8-bit binary Addition ASCII Binary code Boolean Byte Communicate Construction CPU Data Transmission Decimal numbers Design Discovery Distance Hexadecimal Input Instructions Internet Mars Rover Moon Numerical data Output Planet Radio signal RAM Research Scientist		

Opportunities to support English and maths
<ul style="list-style-type: none"> <li>Growth mindset</li> <li>Resilience</li> <li>Critical thinking</li> <li>Problem solving</li> </ul>

Curriculum Links and Enrichment Activities
<ul style="list-style-type: none"> <li>Maths</li> <li>Science</li> <li>Topic</li> </ul>

**Respect**

**Responsibility**

**Reflection**

**Resilience**