





































**CUSP DT Core Content:  
Block A and Block B (Autumn Term)**

Year	Block A	Block B
1	<p><b>Core discipline:</b> Mechanisms </p> <p><b>Key concept:</b> Sliders and levers How can you make a picture move?</p>	<p><b>Core discipline:</b> Structures </p> <p><b>Key concept:</b> Freestanding structures How can you stop a tower from toppling over?</p>
2	<p><b>Core discipline:</b> Textiles </p> <p><b>Key concept:</b> Exploring shape using a template How can you repurpose an item of clothing?</p>	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Nutrients and the body What does healthy mean?</p>
3	<p><b>Core discipline:</b> Textiles </p> <p><b>Key concept:</b> Stiffening and strengthening fabric How can you make a box out of cloth?</p>	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Individual diets What do we mean by a balanced diet?</p>
4	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Ultra-processed food What's really in your food?</p>	<p><b>Core discipline:</b> Mechanisms </p> <p><b>Key concept:</b> Hinges How many ways are there to open a door?</p>
5	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Food choices Why are our diets so different?</p>	<p><b>Core discipline:</b> Systems </p> <p><b>Key concept:</b> Using technology to design and control How can we keep ourselves safe on the road?</p>
6	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Multicultural influences on food Can street foods save us?</p>	<p><b>Core discipline:</b> Mechanisms </p> <p><b>Key concept:</b> Pulleys and gears - rotary and linear movement How do pulleys and gears let you see the world?</p>

**CUSP DT Core Content:  
Block C and Block D (Spring Term)**

Year	Block C	Block D
1	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Exploring food senses How does food affect your senses? CUSP link: Animals, including humans</p>	<p><b>Core discipline:</b> Understanding Materials </p> <p><b>Key concept:</b> Selecting materials Can you build with bread? CUSP link: Everyday materials</p>
2	<p><b>Core discipline:</b> Mechanisms </p> <p><b>Key concept:</b> Axles and wheels Are bigger wheels always better?</p>	<p><b>Core discipline:</b> Understanding Materials </p> <p><b>Key concept:</b> Manipulating materials How can you waterproof a hat? CUSP link: Uses of everyday materials</p>
3	<p><b>Core discipline:</b> Mechanisms </p> <p><b>Key concept:</b> Levers and linkages - mechanical advantage How can you do a lot of work with little effort? CUSP link: Forces and magnets</p>	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Food as medicine How does food affect your body and mind? CUSP link: Animals, including humans</p>
4	<p><b>Core discipline:</b> Textiles </p> <p><b>Key concept:</b> Fixings and fastenings How do you keep a tea towel from slipping off a hook?</p>	<p><b>Core discipline:</b> Structures </p> <p><b>Key concept:</b> Designing structures using a frame to make them stronger and sturdier Which shapes will give a structure stability?</p>
5	<p><b>Core discipline:</b> Textiles </p> <p><b>Key concept:</b> Durability of fabric Which fabric is ideal for creating a functional and hardwearing lunch bag?</p>	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Cultural influences on diet What can you learn from different cultures' diets? CUSP link: World countries</p>
6	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Food and mood Does food affect the way you feel?</p>	<p><b>Core discipline:</b> Structures </p> <p><b>Key concept:</b> Designing structures revisited - combining skills and knowledge How strong is a piece of spaghetti?</p>

**CUSP DT Core Content:  
Block E and Block F (Summer Term)**

Year	Block E	Block F
1	<p><b>Core discipline:</b> Textiles </p> <p><b>Key concept:</b> Joining techniques</p> <p>How can two squares of fabric keep you warm? CUSP link: Hot and cold places</p>	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Vitamins in food</p> <p>Why are vegetables the best?</p>
2	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Processed food</p> <p>How healthy is your food?</p>	<p><b>Core discipline:</b> Structures </p> <p><b>Key concept:</b> Developing strength in structures</p> <p>How strong is a piece of paper?</p>
3	<p><b>Core discipline:</b> Systems </p> <p><b>Key concept:</b> How things are powered</p> <p>How are things powered?</p>	<p><b>Core discipline:</b> Structures </p> <p><b>Key concept:</b> Spanning gaps</p> <p>What makes a bridge strong?</p>
4	<p><b>Core discipline:</b> Electrical Systems </p> <p><b>Key concept:</b> Switches and circuits revisited</p> <p>How useful are switches? CUSP link: Electricity</p>	<p><b>Core discipline:</b> Food and Nutrition </p> <p><b>Key concept:</b> Benefits of fresh food</p> <p>Is cheap food always worse for you? CUSP link: Animals, including humans</p>
5	<p><b>Core discipline:</b> Structures </p> <p><b>Key concept:</b> Developing structures that are fit for purpose</p> <p>How are frames strengthened, reinforced and made rigid?</p>	<p><b>Core discipline:</b> Mechanisms </p> <p><b>Key concept:</b> Pulleys and gears - transferring rotational force</p> <p>How can you lift a car onto a roof? CUSP link: Forces</p>
6	<p><b>Core discipline:</b> Electrical Systems </p> <p><b>Key concept:</b> Complex switches and circuits</p> <p>Can switches perform more than one function? CUSP link: Electricity</p>	<p><b>Core discipline:</b> Textiles </p> <p><b>Key concept:</b> Sustainable materials</p> <p>How can you reduce, recycle, repurpose?</p>