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

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

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

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

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

Year	Block E	Block F
1	**Core discipline:** Textiles **Key concept:** Joining techniques How can two squares of fabric keep you warm? CUSP link: Hot and cold places	**Core discipline:** Food and Nutrition **Key concept:** Vitamins in food Why are vegetables the best?
2	**Core discipline:** Food and Nutrition **Key concept:** Processed food How healthy is your food?	**Core discipline:** Structures **Key concept:** Developing strength in structures How strong is a piece of paper?
3	**Core discipline:** Systems **Key concept:** How things are powered How are things powered?	**Core discipline:** Structures **Key concept:** Spanning gaps What makes a bridge strong?
4	**Core discipline:** Electrical Systems **Key concept:** Switches and circuits revisited How useful are switches? CUSP link: Electricity	**Core discipline:** Food and Nutrition **Key concept:** Benefits of fresh food Is cheap food always worse for you? CUSP link: Animals, including humans
5	**Core discipline:** Structures **Key concept:** Developing structures that are fit for purpose How are frames strengthened, reinforced and made rigid?	**Core discipline:** Food and Nutrition **Key concept:** Cultural influences on diet What can you learn from different cultures' diets? CUSP link: World countries
6	**Core discipline:** Electrical Systems **Key concept:** Complex switches and circuits Can switches perform more than one function? CUSP link: Electricity	**Core discipline:** Textiles **Key concept:** Sustainable materials How can you reduce, recycle, repurpose?