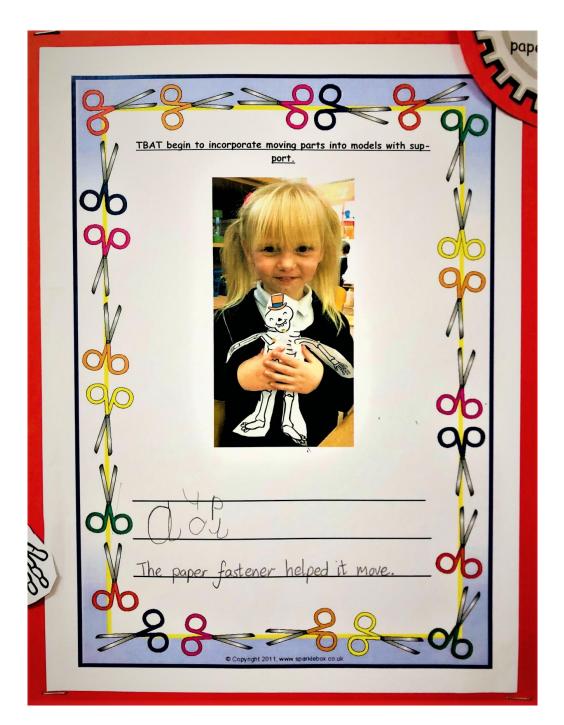


Design Technology Curriculum Progression Strand – Mechanics



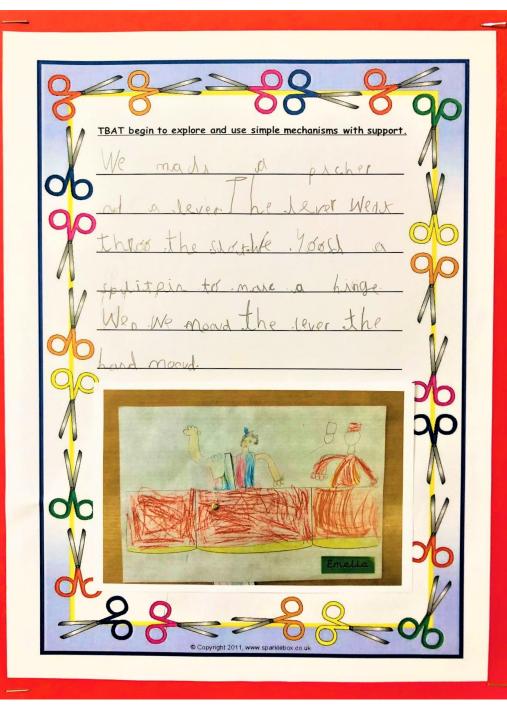


<u>Foundation stage:</u>

Children can begin to incorporate moving parts in to models with support.

Key Vocabulary

up, down, paper fastener

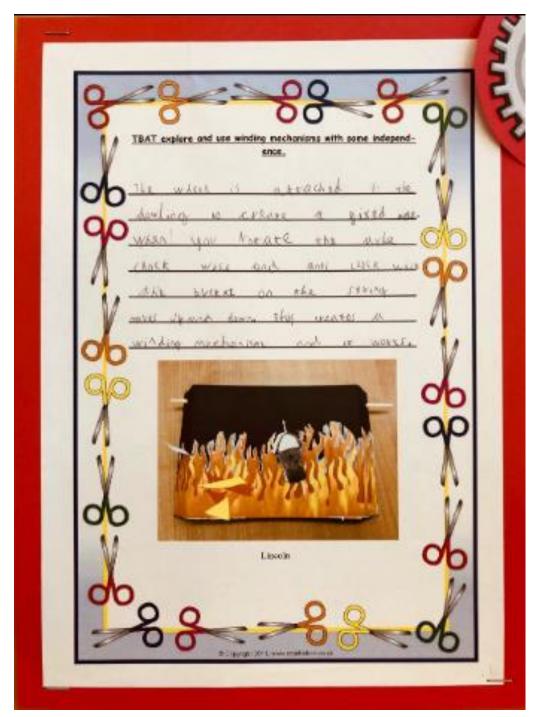


<u>yı:</u>

Children can begin to explore and use simple mechanisms with support.

Key Vocabulary

lever, slot, hinge



<u> Y2:</u>

Children can explore and use winding mechanisms with some independence.

Key Vocabulary

axle, wheel, winding mechanism



Children can begin to develop an understanding that mechanical systems such as levers and linkages can create movement.

Key Vocabulary

linkage, fixed pivot, loose pivot



<u> 74:</u>

Children can produce models that incorporate mechanical systems such as levers, linkages or pneumatic systems to create movement with increasing independence.

Key Vocabulary

pneumatics, force



<u> Y5:</u>

Children have an increasing understanding of how mechanical systems such as cams create movement.

Key Vocabulary

cam, rotary

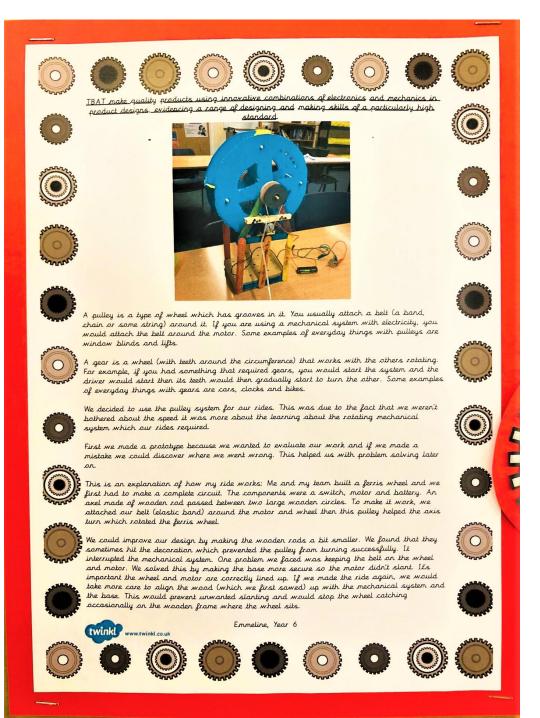


y6:

Children develop a greater understanding of how cams, pulleys or gears create movement, evidencing a range of designing and making skills of a particularly high standard.

Key Vocabulary

pulley, gear, prototype



Mastery:

Children make quality products using innovative combinations of electronics and mechanics in product designs, evidencing a range of designing and making skills of a particularly high standard.

Key Vocabulary

pulley, gear, prototype, mechanical systems