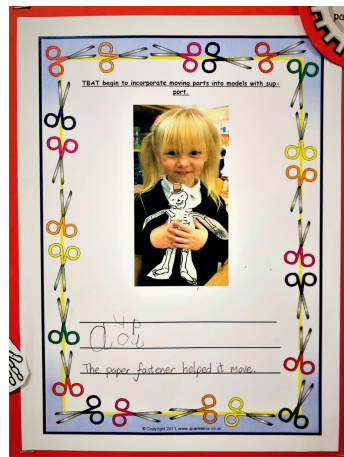
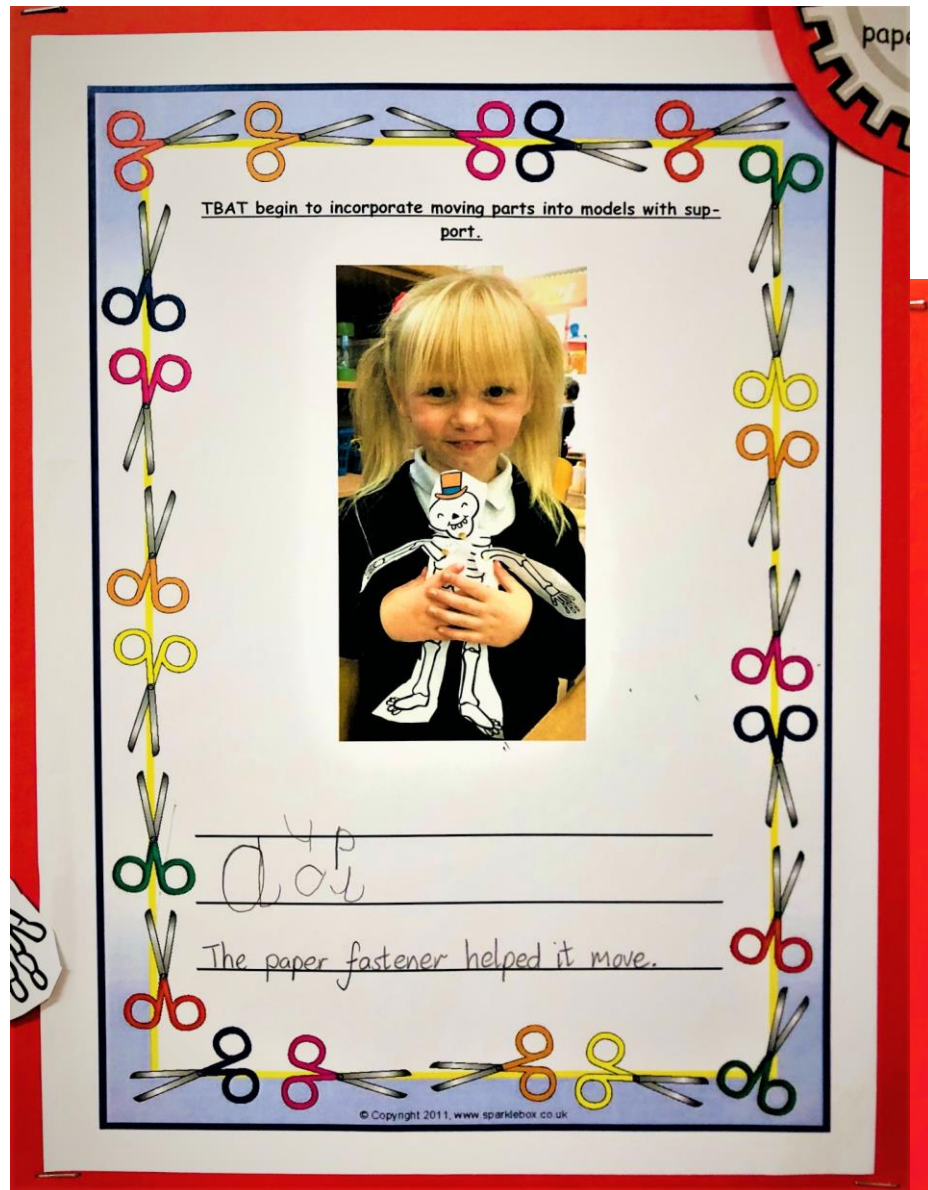




Design Technology Curriculum Progression Strand – Mechanics





Foundation stage:

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

Key Vocabulary

up, down, paper fastener

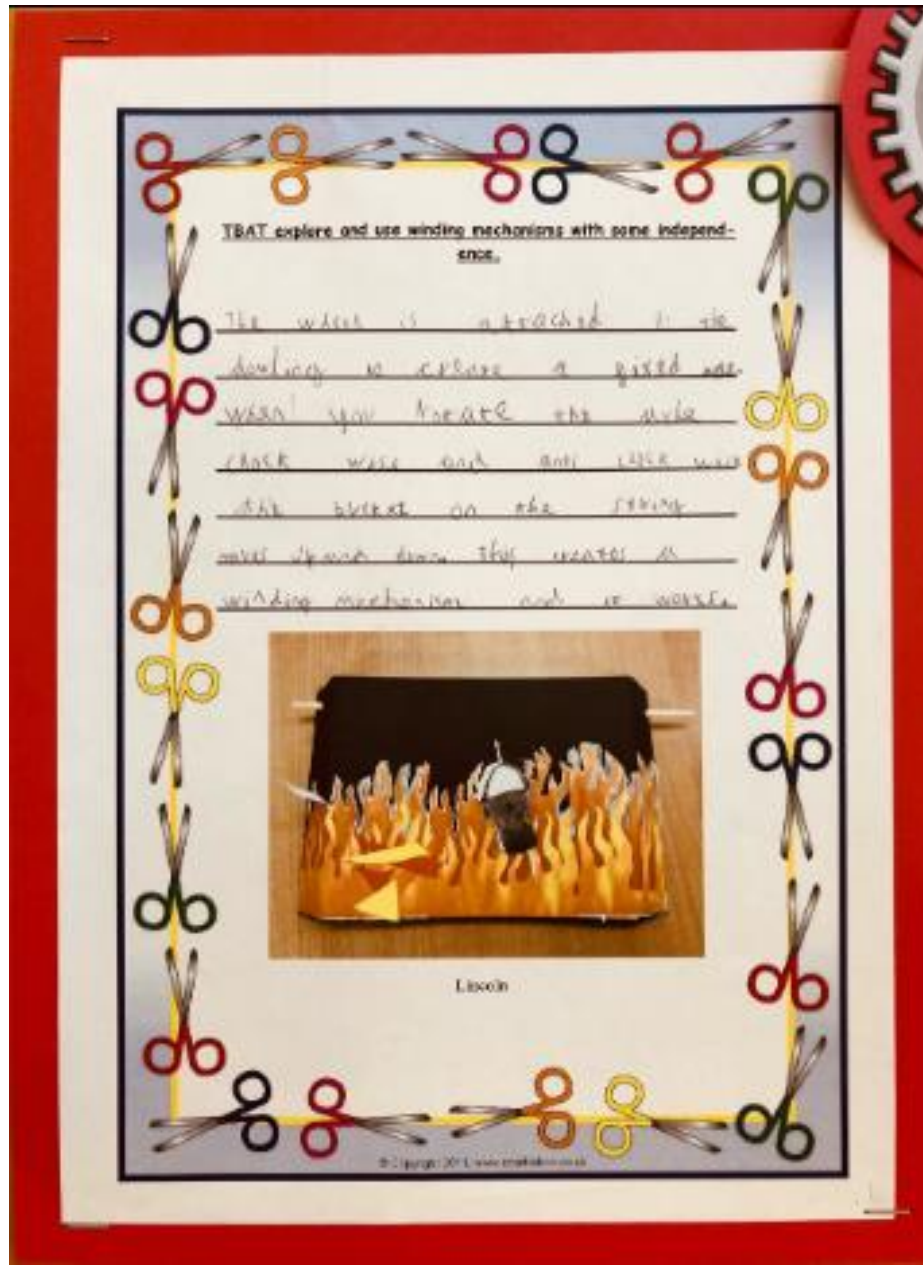


y1:

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

Key Vocabulary

lever, slot, hinge



Y2:

Children can explore and use winding mechanisms with some independence.



Key Vocabulary

*axle, wheel,
winding mechanism*

Y3:

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

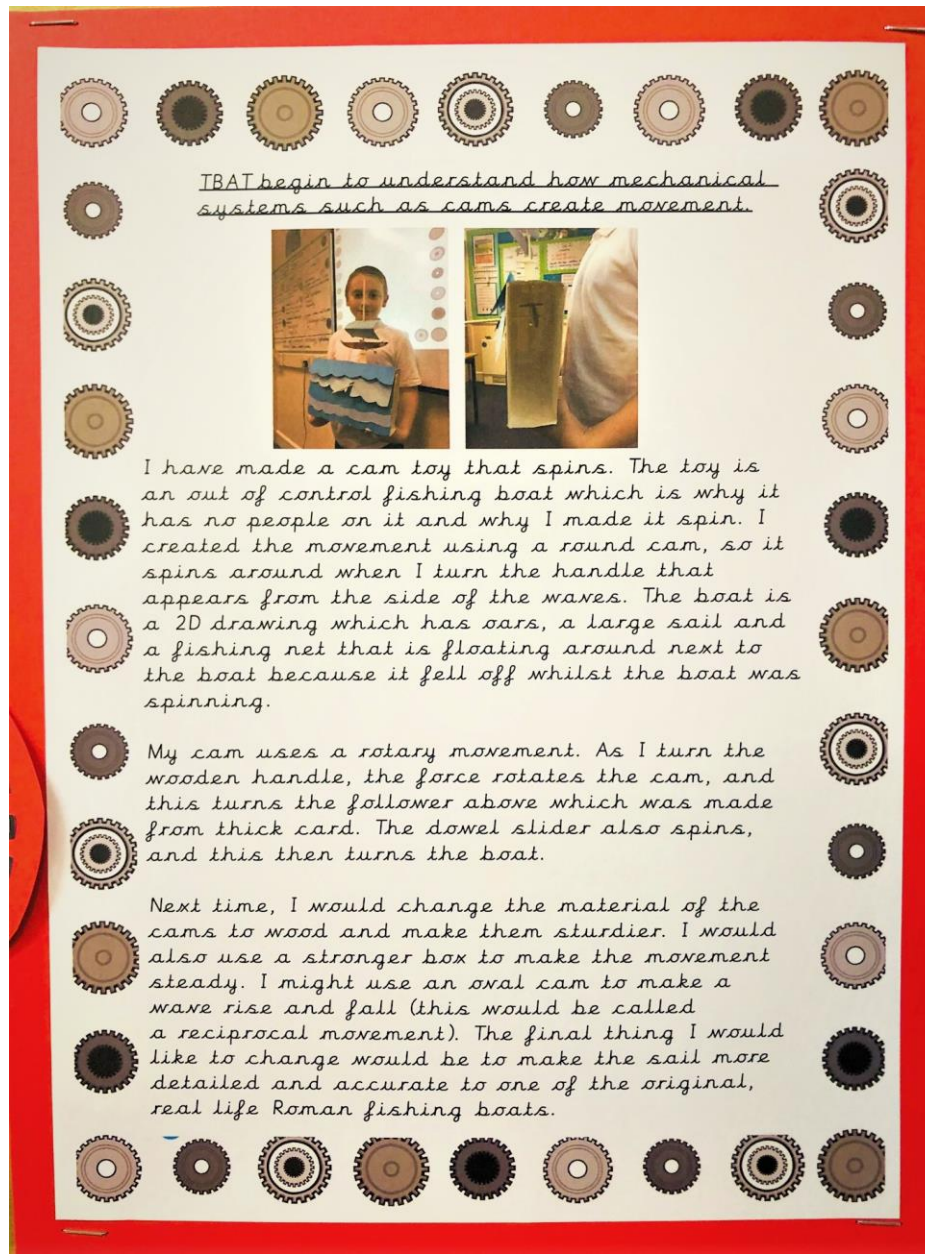
Key Vocabulary

linkage, fixed pivot, loose pivot



y4:

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

y5:

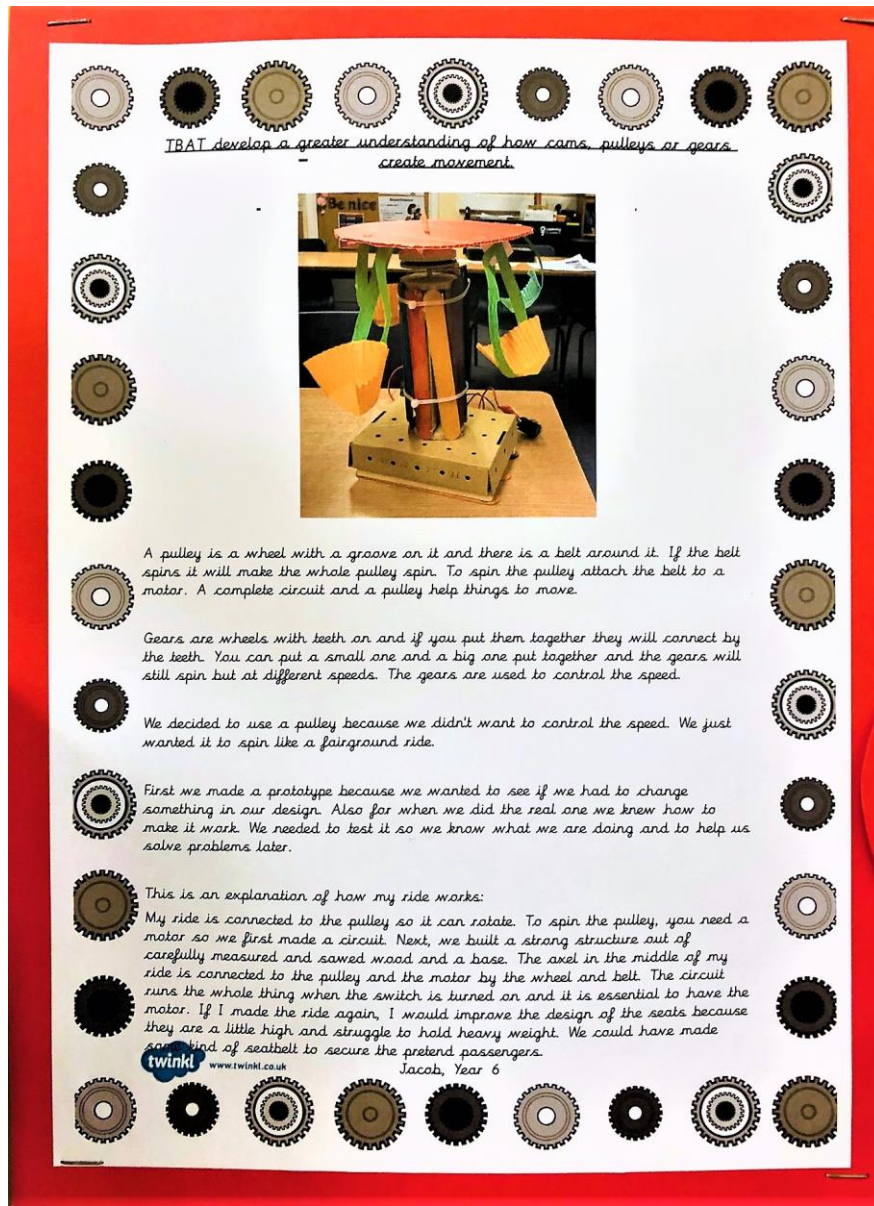
Children have an increasing understanding of how mechanical systems such as cams create movement.

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*