



**Prior learning:** In Reception, children used a plan-do-review approach to designing and making products and learnt to use scissors glue, spatulas and tape.

Meet some brilliant designers...



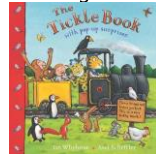
Jan Pienkowski is a writer, illustrator and designer of movable books such as 'Robot' and 'Haunted House'.



Axel Scheffler is an illustrator and author who has created movable and pop-up books such as The Tickle Book and Room on the Broom.

### 1. How do moving books work?

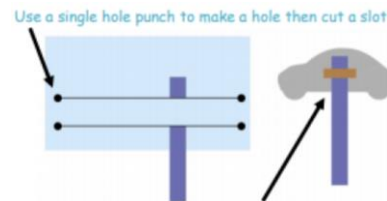
We will learn how moving books by sharing books together.



5• Brilliant mechanics know how pop-up books and books with moving elements work by exploring and evaluating a range of books

### 2. How do you make sliders?

We will learn how sliders work, using a bridge and a slot, and look at the key components and practice making our own sliders.



8• Brilliant mechanics know how to use sliders to make a moving picture  
7• Brilliant mechanics know how to make structures which are stronger, stiffer and more stable

### 3. How do you make levers?

We will learn how to make levers, learning about fasteners, pivot points and levers and practice making our own levers.



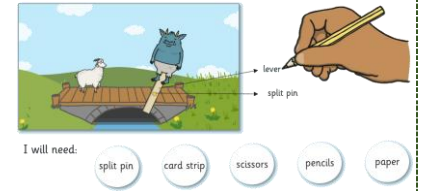
8• Brilliant mechanics know how to use levers to make a moving picture  
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### 4. How do designers design a moving picture?

We will plan what we want our moving pictures to look like, how we will build it and what tools and equipment we need



1• Brilliant designers can design a moving picture for a purpose  
2• Brilliant designers can draw and talk about their moving picture design



### 5. How do designers create a moving picture?

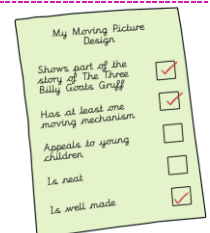
We will plan what we want our vehicle to look like, how we will build it and what tools and equipment we need.



3• Brilliant mechanics learn to use a range of tools (scissors, glue, tape) for cutting, shaping, joining and finishing.  
4• Brilliant mechanics can shape, cut and join a range of materials and components, including card, paper and fabric.

### 6. How do designers evaluate their moving pictures?

We will share our moving pictures with Reception children and evaluate them against the design criteria.



6• Brilliant mechanics can evaluate the success of their moving picture against design criteria

### Key vocabulary: Glossary

|          |                                                  |           |                                                                                          |
|----------|--------------------------------------------------|-----------|------------------------------------------------------------------------------------------|
| bridge   | a card strip used to keep a slider in place      | mechanism | an object which has moving parts                                                         |
| fastener | objects used to join two or more things together | pivot     | the point at which something turns                                                       |
| guide    | Another name for a bridge                        | slider    | a mechanism for making movements up and down or side to side                             |
| lever    | a rigid bar which moves at a fixed point         | slot      | the hole through which a lever or slider is placed to enable part of the picture to move |