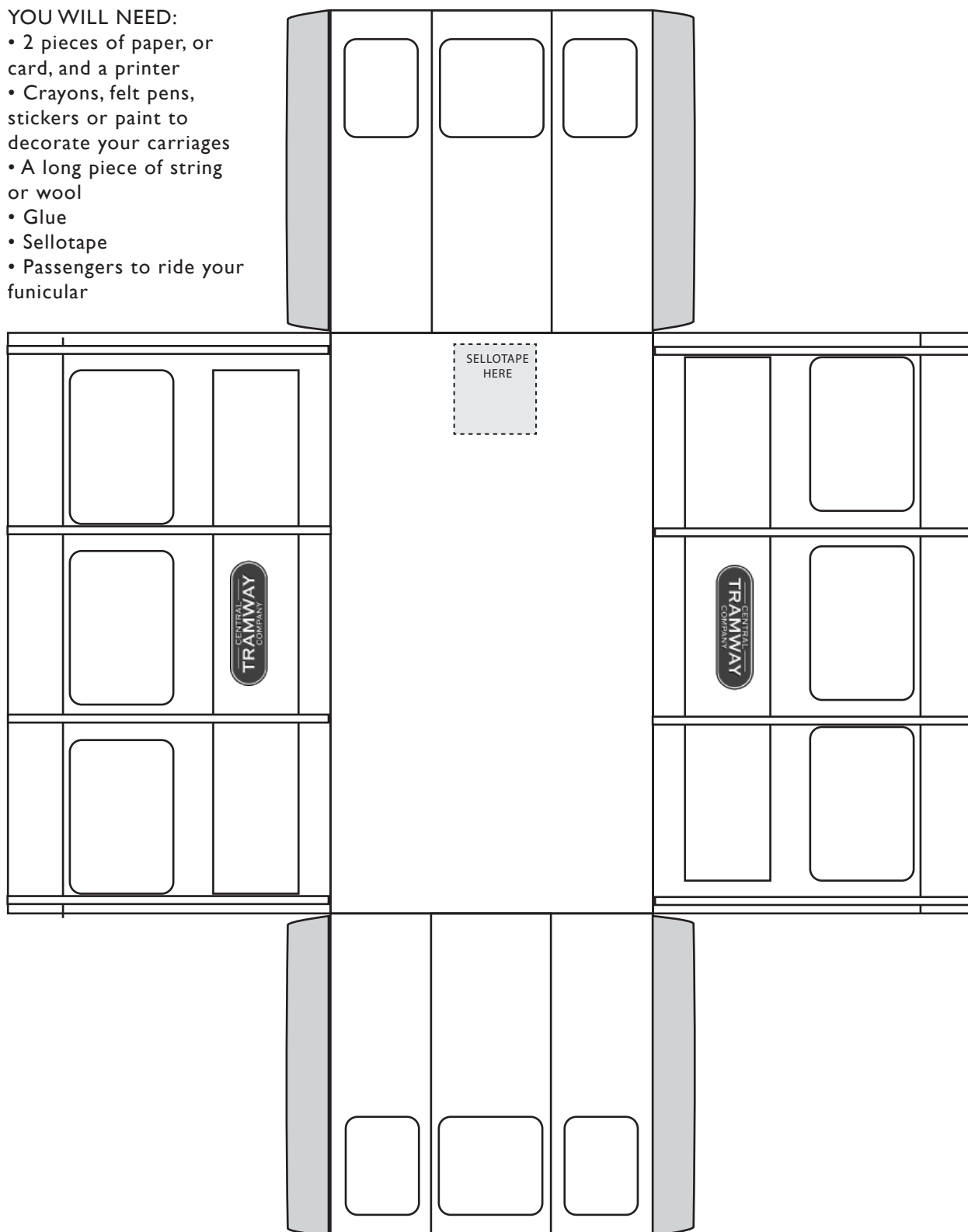


BUILD YOUR OWN MODEL FUNICULAR RAILWAY

YOU WILL NEED:

- 2 pieces of paper, or card, and a printer
- Crayons, felt pens, stickers or paint to decorate your carriages
- A long piece of string or wool
- Glue
- Sellotape
- Passengers to ride your funicular



1. Print 2 copies of this page, thick paper or card is best.
2. Colour in your carriages - you could use the traditional colours of burgundy and cream, or use your imagination and design your own colourful creation!
3. Cut out the 2 carriages (ask a grown-up for help here if you need it).
4. Carefully fold the edges to begin to make your carriage shape (be sure to fold before you glue!).
5. Apply glue to the grey panels and construct your carriages.
6. Attach the string to both carriages with the sellotape

(this may need to be adjusted once you have your carriages in position).

7. Loop the string around a fixed object such as a door handle.
8. A track is useful, make your own from a cereal box or piece of card.
9. To see the counter balance principle in action add passengers and see what happens as one carriage becomes heavier (we added blue-tack for extra weight). You can also increase or decrease your gradient and see how this affects the speed.