

The MAD Museum

Activity Pack Ages 8 to 11 - ANSWERS

MAD Picture Quiz

- 1 c
- 2 7 cams
- 3 a
- 4 False
- 5 d
- 6 There are 2 routes
- 7 b
- 8 True
- 9 d
- 10 The Growler

MAD stands for Mechanical Art & Design

Feel The Force!

- 1 All 3
- 2 Gravity and air resistance
- 3 Gravity

Changing Pace

- A Move the track so it's at a steeper angle
- B Move the track so it's at a shallower angle
- C Move the tracks so it's horizontal

Super Surfaces!

- B Shiny Metal will help the marble to roll faster as it has a smooth surface
A Thick fun fur will make it roll slowly as it causes the most friction
Other good surfaces- polished wood, glass, plastic, ice, concrete- anything smooth that won't cause too much friction

Marble Run Fun

Missing section - the answer is B. A is an acute angle; B is an obtuse angle; C is a right angle
Furthest angle - 3.154 degrees

Get In Gear

Gears 4 and 10 - anticlockwise
Gear 7 - clockwise