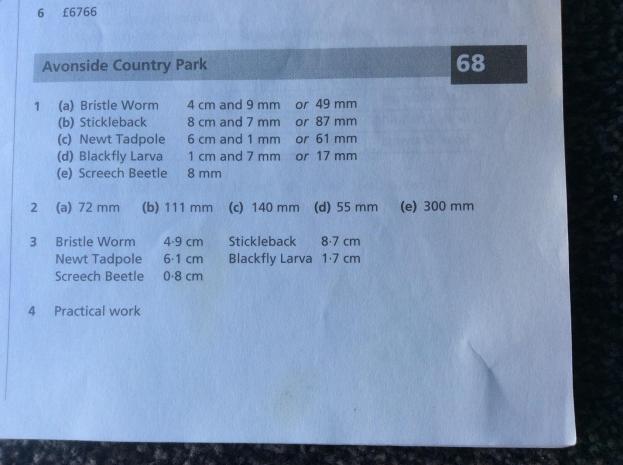
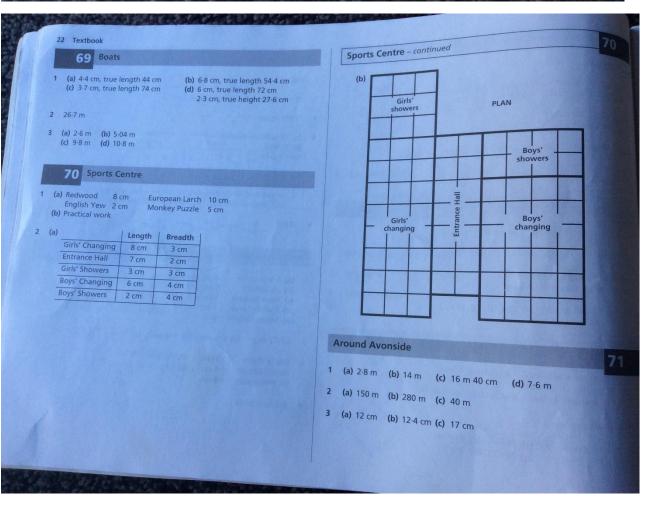
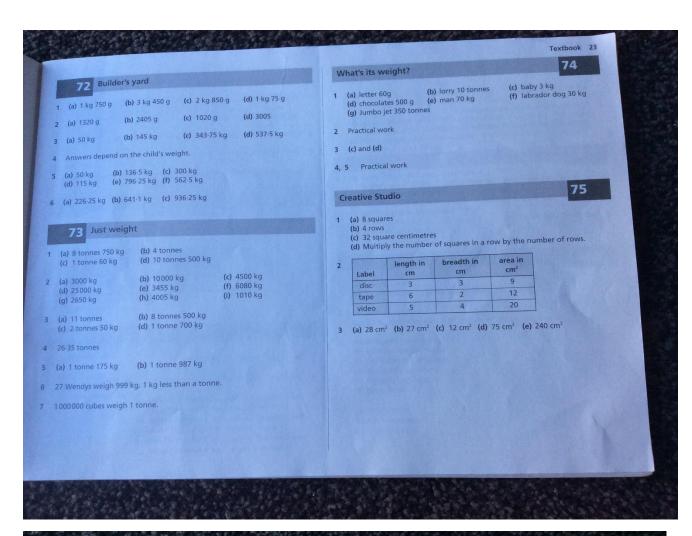
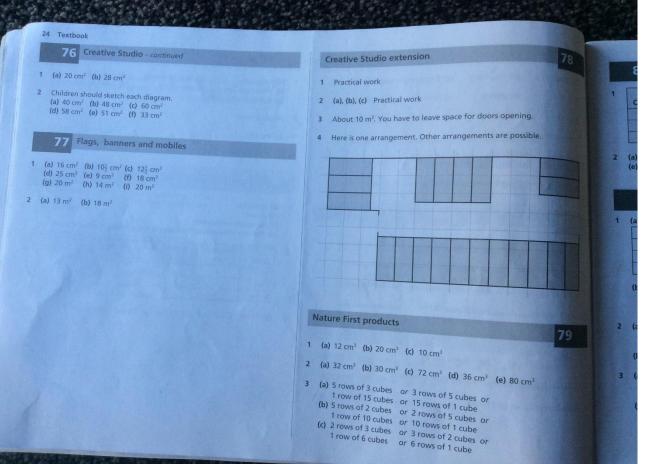
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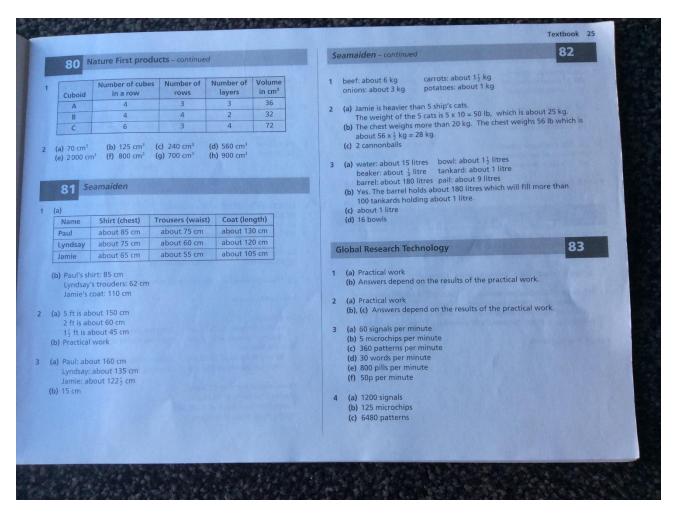
#### SPMG Book 7



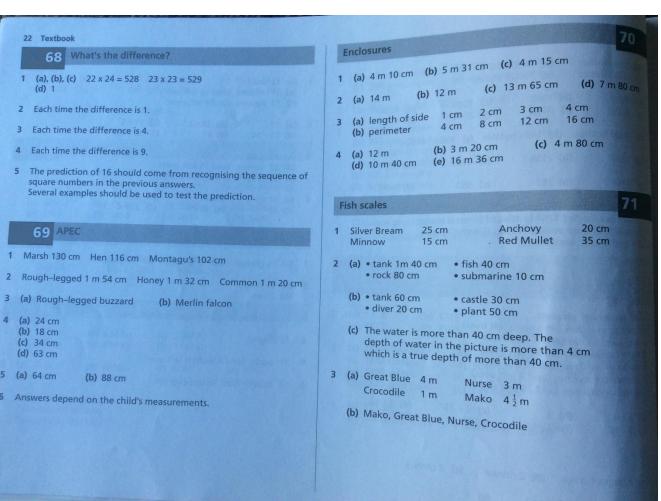








#### SPMG Book 6





Race for APEC - continued

73

Iguanodon 8 m Cetiosaurus 18 m Brachiosaurus 24 m

(a) Brachiosaurus was the longest.
It was about 3 times longer.
(b) Answer depends on the length of the classroom.
(c) A blue whale can be longer than any of these dinosaurs.

72 Dinosaurs

Iguanodon (a) Tyrannosaurus 6 m Brachiosaurus 12 m Cetiosuarus (b) Brachiosaurus was the tallest.

Answer depends on the height of the classroom.

4 (a) • Dino World length 80 m breadth 60 m • grounds length 180 m (b) 10 Cetiosaurus lengths would fit. breadth 100 m

(c) Yes, 3 Brachiosaurus lengths would fit. Three Brachiosaurus lengths are  $3 \times 24 \text{ m} = 72 \text{ m}$  which is shorter than the length, 80 metres, of Dino World.

#### 73 Race for APEC

Practical work

Practical work

(a) 3 km (b) 5 km

(c) 10 km

(d) 25 km

8 km 437 m

(a) 3 km 960 m (b) 4 km 936 m (c) 6 km 174 m (d) 18 km 258 m (e) 3 km 55 m (f) 12 km 90 m (g) 5 km 5 m (h) 70 km

(c) 11 400 m (d) 3025 m (h) 3500 m 6 (a) 2350 m **(b)** 4746 m (g) 1500 m (e) 15 005 m (f) 500 m

Answers depend on children's town.

#### Routes

74

(a) 2 km 150 m (b) 750 m shorter

(a) 1 km 850 m (b) 1 km (c) 1 km 220 m (d) 2 km 450 m

3 (a) abbey → dunhill → hotel → pier → farm → quarry (distance 7 km)

(b) 3 km 930 m

(a) • red route 3 km 75 m • blue route 7 km 632 m (b) 4 km 557 m longer

Various routes are possible. One possible route is park centre → cross → cliff → tower → pond → park centre (distance 9 km 65 m)

#### 24 Textbook

#### 75 Weighing at APEC

(a) 20 g, 20 g (b) 50 g, 20 g, 5 g (c) 500 g, 200 g, 100 g, 50 g, 10 g (d) 500 g, 100 g, 50 g, 20 g, 10 g (e)

(e) 200 g, 100 g, 20 g, 10g, 5 g

(a) 2000g (e) 4500 g

(b) 3120 g (c) 1080 g (d) 2006 g

(a) 1 kg 300 g (b) 2 kg 345 g (c) 3 kg 650 g (d) 2 kg 35 g

4 (a) 1 kg 500 g (b) 1 kg 310 g (c) 1 kg 100 g

5 (a) 2 kg 340 g (b) 3 kg 375 g (c) 3 kg 100 g

(d) 3 kg 135 g

6 difference between the cream and

spotted egg, 380 g
pale blue egg, 380 g
brown egg, 275 g
grey egg, 140 g

7 (a) Children's answers may vary.
 (b) An egg weighs about 60g. The children's explanation should relate to the weight of 30 such eggs weighing more or less than the ostrich egg.

# Feeding time at APEC

(b) 90 g 1 (a) 340 g

cabbage 140 g turnip 520 g 780 g kale 75 g lettuce apple 260 g oats 480 g 350 g banana 675 g potato

#### The weigh-in

hamster 600 g cat 2 kg 400 g gerbil kitten 225 g guinea pig 350 g

rat 600 g to the nearest mark 480 g to the nearest mark 2 kg 500 g to the nearest mark pigeon cat dormouse 135 g to the nearest mark 1 kg 800 g to the nearest mark 410 g to the nearest mark seagull mole field mouse 70 g to the nearest mark grass snake 225 g to the nearest mark

3 Practical work.



### 78 APEC foodstore

- (a) 7 kg 500 g (b) 10 kg 800 g (c) 10 kg 600 g (d) 31 kg 500 g (e) 6 kg 75 g (f) 2 kg
- Two bags of mixed vegetables weigh the same as five bags of dog biscuits (9000 g).  $\,$
- 3 (a), (b) Practical work
- Answers depend on things in the classroom.
- 5 (a), (b), (c) Practical work

#### 79 The Guard Room

- - (a) 54 squares (b) 28 squares (c) 56 squares (d) 64 squares (e) 78 squares (f) 85 squares
  - (g) 189 squares
- 2 (a) 1 square metre or 1 m<sup>2</sup>
  - (b) 20 square metres or 20 m<sup>2</sup>

# 80 Groovy gallery

- (a) 27 squares

  - (b) 8 squares (c) 9 squares
  - (d) 44 squares
- (a) 48 squares (b) 32 squares
- (a) 50 squares (b) 45 squares (c) 64 squares (d) 65 squares

#### Medicine

81

(d) 800 ml

- (a) 4 spoonfuls
  - (b) 3 cupfuls (c) 40 spoonfuls (d) 5 cupfuls
- (b) 500 ml (c) 200 ml 2 (a) 300 ml
- (a) Seal Syrup contains about  $\frac{1}{2}$  litre. (b) Budgie Boost contains less than  $\frac{1}{4}$  litre.
- (a) Each small interval represents 10 ml. (b) 440 ml

(c) Monkey Mix Water

Plant juice 310 ml Tonic 180 ml Factor X 250 ml

The total volume is 1000 ml, or 1 litre.

#### To the nearest mark

82

- 1 A Balm B – Antiseptic
- C Spirit
- D Lotion (d) 400 ml

- 2 (a) 700 ml 3 (a) 280 ml
- (b) 300 ml (b) 490 ml
- (c) 700 ml (c) 350 ml

#### 4 Practical work.

# 26 Textbook

#### Vitamin cubes 83

- (a) 9 cm<sup>3</sup>
- (b) 8 cm<sup>3</sup>
- (c) 12 cm<sup>3</sup>
- (d) 16 cm<sup>3</sup>

- (a) 2 layers
- (b) 3 layers
- (c) 3 layers
- (d) 2 layers

- 18 cm<sup>3</sup>
- 24 cm<sup>3</sup>
- 36 cm<sup>3</sup>
- 32 cm<sup>3</sup>

- (a) 27 cm<sup>3</sup>
- (b) 48 cm<sup>3</sup>
- (c) 36 cm<sup>3</sup>
- (d) 64 cm<sup>3</sup>

Practical work.

## 84 Litre of cubes

- (a) 20 cm<sup>3</sup>
  - (b) 3 layers
    - 5 layers 50 layers
- 100 cm<sup>3</sup>
- (a) 10 flats
  - (b) 1000 cm<sup>3</sup>
- 1000 cm<sup>3</sup>
- The children should notice that the cube just holds one litre of water or the litre of water takes up the same space as 1000 cm<sup>3</sup> (the 10 flats).
- 72 cm<sup>3</sup>

