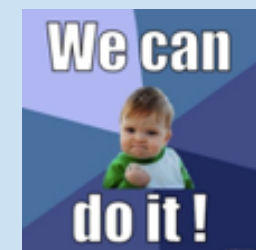




# NEW VALLEY PRIMARY SCHOOL REMOTE LEARNING



Year 6  
Oak



Safer  
Internet  
Day 2021 | Tuesday  
9th February  
[saferinternetday.org.uk](https://saferinternetday.org.uk)

Tuesday 9<sup>th</sup> February 2021

# Recommended Daily Timetable

**The date:** Tuesday 9th February 2021

9.2.21



## Morning

Group 1  
Teams call  
9-9.30am

9 - 9.30

or

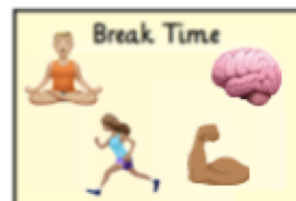
Group 2  
Teams call  
9.30-10am

9.30 - 10

Get moving!



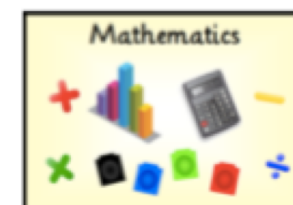
10 - 10.30



10.30 - 11



11 - 11.30



11.30 - 12

## Afternoon

Group 1  
Teams call  
12-12.30pm

12 - 12.30

or

Group 2  
Teams call  
12.30-1pm

12.30 - 1

Click Me!

[Wake up with Joe](#)



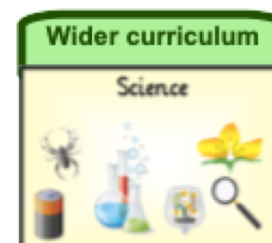
1 - 2



2 - 2.30

Click Me!

[BBC Live Lesson](#) at 11!



2.30 - 3

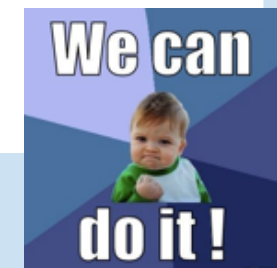


3 pm

Have a go at TTRS  
when the other  
group are having  
their Teams call!



Send your work, and any questions, to [oak@newvalleyprimary.com](mailto:oak@newvalleyprimary.com)



Tuesday  
9/2/2021



We'll discuss this lesson  
in our morning call.

## English

Today we are learning to: **Help to  
create an internet we trust**

Click Me!

[Click here](#) to watch the Safer Internet Day assembly if you missed our morning call today.

## Activity

Click Me!

[Watch this video](#) and [have a look at these top tips](#) about internet safety.

Write down three top tips you would tell a friend, two questions you have and one thing you already knew!

Click Me!

## Maths

Keep track of our learning journey using [Resource 4!](#)

This week we are studying: **Area, perimeter and volume**  
Follow the links to the White Rose website to find today's lesson on: **Area of a triangle (day 2)**

top  
tip!

Resource 5/6

Click Me!

[Lesson video link](#)  
[Lesson activity sheet link](#)  
[Today's answers](#)

AREA OF A  
TRIANGLE (2)

## Wider Curriculum Science

Our focus this term is:  
**Electricity**



[Click this link](#) and work your way through the lesson.

Session focus: **How much do we rely on electricity?**

In this lesson, we will learn about mains and battery electricity. We will identify and sort appliances based on whether they are electrical or non-electrical and also whether they are powered by mains or battery electricity. We will explore the idea of a world without electricity.

## Safer Internet Day

Set your alarm for **11am** and join in with a BBC Live Lesson all about Safer Internet day!

BBC  
**LIVE  
LESSONS**



Click Me!

[In this 30-minute Live Lesson](#), we learn about how we can stay safe, responsible and wise in an increasingly digital world. There will be tips and advice from some of the biggest personalities on the web!

## TT Rock Stars

Practise your times tables using [Times Table Rock Stars!](#)

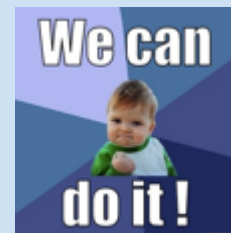
Click Me!



We'll go over this in our  
afternoon meeting tomorrow.

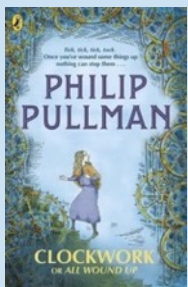
## 'Homework'

Have a go at the homework in [Resource 7](#).

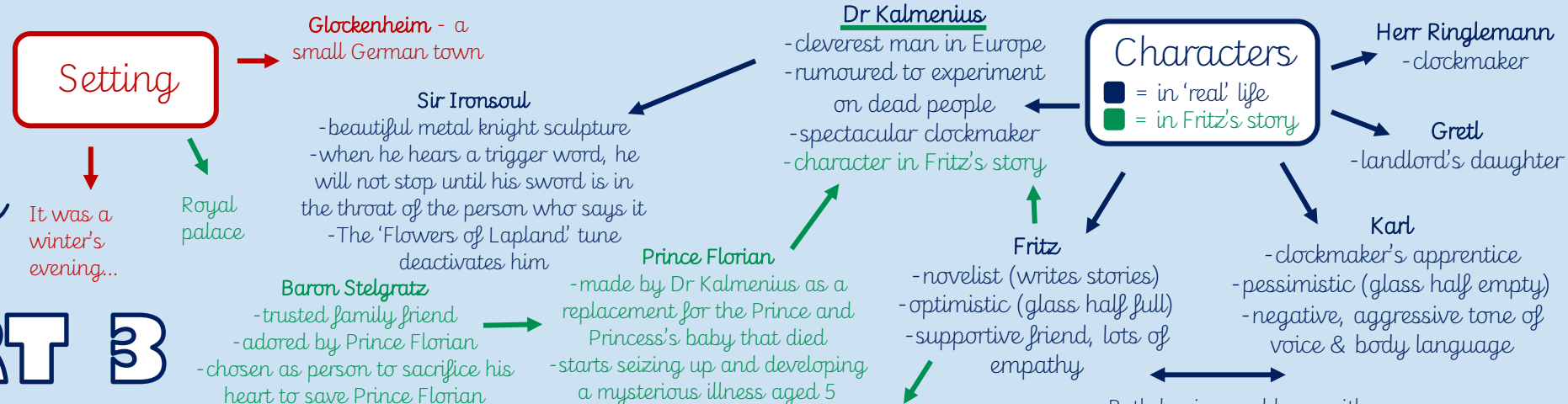


Remember to take lots of exercise and brain breaks away from your screen during the day!





# Resource 1 Clockwork working wall



## Plot updates

## PART 3

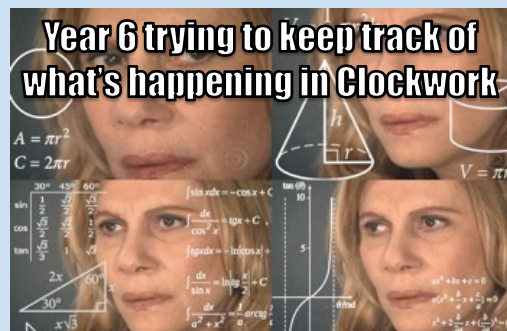
We are back in the tavern with Gretl and Sir Ironsoul...

Prince Florian enters the tavern, singing 'The Flowers of Lapland', at just the right moment! He deactivates Sir Ironsoul with his singing. Gretl takes Fritz's manuscript out of the fire to find out who the little boy is but she finds that he hadn't finished it.

1 She leaves to go and find him.

Karl returns to the tavern and is baffled to find that Sir Ironsoul has moved. He spots Prince Florian and is delighted. He is an exquisite piece of machinery and Karl decides to use him, instead of Sir Ironsoul, for his big reveal tomorrow. He decides that he will keep Sir Ironsoul and use him as the perfect accomplice to help him become rich! He gets so excited that he loses all sense of what is right...

2




Gretl finds Fritz's house and goes upstairs to ask about the story. Fritz is in a bad state and says he wishes he never told a story in his life! She tells him that she knows that he didn't finish the story and asks what happens next. Fritz tells her that he dreamt the first part of the story and likes the risk of making stories up as he goes along...

3

Karl returns to the tavern after putting Prince Florian in the clock. He is excited for the fortune and power that await him when he leaves town with Sir Ironsoul. Putzi, the cat, is at the inn when he gets back but Karl ignores him. Putzi rubs against Karl's arm and makes him jump. "Oh! What the devil - ?" He accidentally summons Sir Ironsoul! His mouth is too dry to whistle the tune... Gretl discovers Karl stark dead, with Sir Ironsoul's word in his throat.

4

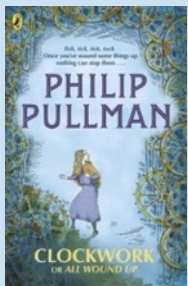


Gretl takes the key to the clocktower from Karl and climbs up and up, past all of the old figures. She finally finds Prince Florian. They fall asleep in the clocktower and the next morning, they pop out of the clock during the big reveal. The crowd can't believe how lifelike the TWO sleepy figures look! Gretl's love has transformed Prince Florian into a real boy! Fritz has disappeared so the rest of the story remains a mystery... And Dr Kalmenius is just a character in a story, isn't he...?

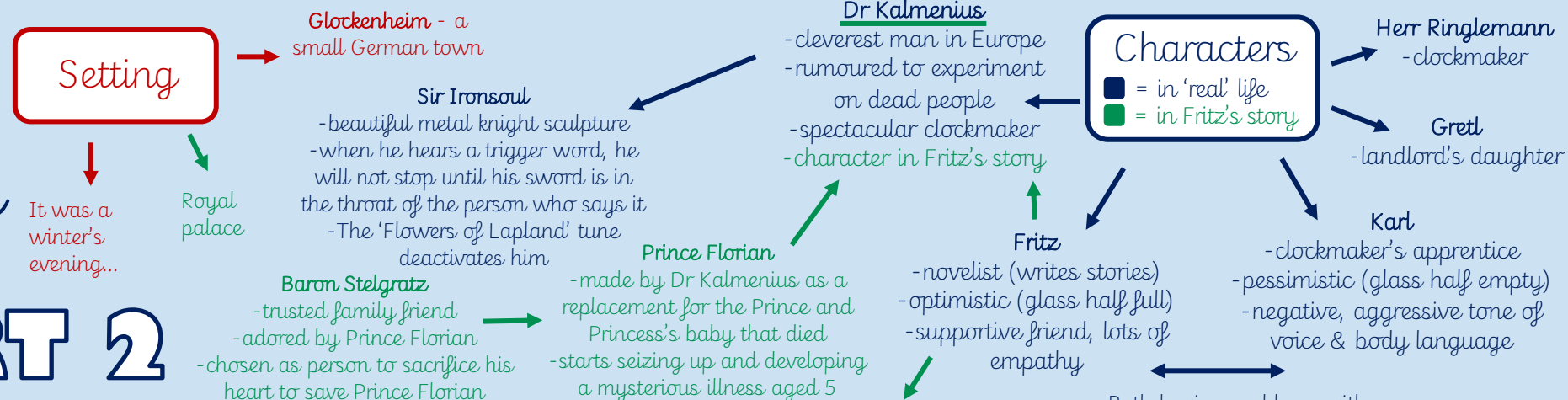
5

Remember to take lots of exercise and brain breaks away from your screen during the day!





# Resource 2 Clockwork working wall

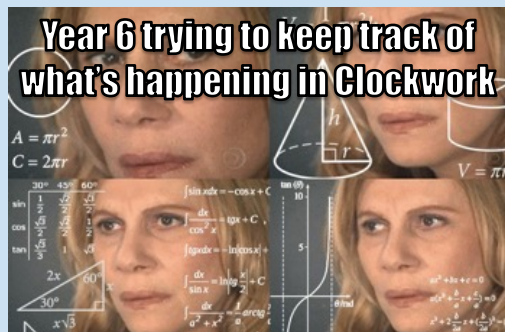


Plot updates

## PART 2

1 We have jumped back in time to the setting of Fritz's story! Prince Otto and Princess Mariposa desperately want a child (an heir to the throne). Princess Mariposa finally gives birth to a son but he sadly dies shortly after. Prince Otto demands that Dr K makes him a replacement child. After 5 years, Prince Florian starts seizing up and developing a mystery illness.

2 The royal physician prescribes cod liver oil but Prince Otto knows it won't work because the child is not a human. Dr K says he always knew that this would happen but he didn't tell Prince Otto as he was in too much of a rush to ask. Dr K says the only thing that can save Prince Florian is a new heart. Prince Otto plans to use Baron Stelgratz's heart to save his son - Baron Stelgratz doesn't know his plan!



3 Baron Stelgratz, Prince Otto and Prince Florian set off into the woods. On their way to Dr Kalmenius, Baron Stelgratz is attacked and killed by wolves. Who will donate their heart to Prince Florian now? Prince Otto hopes to find a random person in the woods but there is no one around.

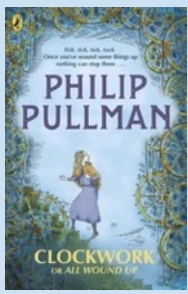
4 Prince Otto decides to donate his own heart to save his son (and the royal dynasty). He needs a way to get Prince Florian back to the palace, so Dr Kalmenius puts clockwork in his body to move his arm and let him whip the horses. It works! Prince Florian arrives at the palace safe and sound. Prince Otto is dead but still moving...like we heard in Fritz's story. Everyone in the town starts spreading rumours about what they think happened.

5 When he is 10 years old, Prince Florian's illness returns. The doctor says some time in the woods will help him, like last time. No one wants to take Prince Florian because of what happened to the last 2 people who went into the woods with him - they died! They offer a groom 10 silver pieces and he agrees. He leaves the child and plans to run away because he thinks he is a lost cause. Prince Florian wanders in to an inn. He can't speak, but is singing the Flowers of Lapland...

Queries

Theories

Remember to take lots of exercise and brain breaks away from your screen during the day!



# Resource 2 Clockwork working wall

Setting

Glockenheim - a small German town

Sir Ironsoul

- beautiful metal knight sculpture
- when he hears a trigger word, he will not stop until his sword is in the throat of the person who says it
- The 'Flowers of Lapland' tune deactivates him

It was a winter's evening...

Dr Kalmenius

- cleverest man in Europe
- rumoured to experiment on dead people
- spectacular clockmaker
- character in Fritz's story

Characters

- = in 'real' life
- = in Fritz's story

Herr Ringlemann  
- clockmaker

Gretl  
- landlord's daughter

Karl

- clockmaker's apprentice
- pessimistic (glass half empty)
- negative, aggressive tone of voice & body language

Fritz

- novelist (writes stories)
- optimistic (glass half full)
- supportive friend, lots of empathy

Prince Otto

- goes hunting with his friend (Baron Stelgratz) & son (Prince Florian)
- found dead 2 days later
- clockwork mechanism in the place of his heart

Both having problems with their jobs (Karl hasn't made his figure for the clock and Fritz hasn't finished his story)

I think Dr K is trying to get people to do his dirty work for him - he knew someone would say the trigger!

I think there are lots of stories within the story, like cogs in a clock!

Theories

I think Philip Pullman was inspired by the Rathaus-Glockenspiel clock in Munich, Germany.



Plot updates

PART 1

The story starts on a winter's evening in the small German town of Glockenheim. Some of the townsfolk were in the White Horse Tavern (pub).

1

Karl's clockmaking apprenticeship with Herr Ringlemann is almost over. It is a tradition that when the apprenticeship comes to an end, the apprentice makes a new figure for the great Clock of Glockenheim.

2

Karl is miserable. He confesses to Fritz that he has not made his figure, and the whole town will think he is a failure when he is meant to unveil it tomorrow.

3

Fritz, an optimist, tries to comfort Karl but it doesn't seem to work. We learn that Fritz's new story is called 'Clockwork'. Fritz is also slightly nervous because he hasn't finished writing it!

4

Fritz starts telling his story: Prince Otto and a friend take his young son out hunting. The prince's body is found dead, but still moving. When the doctor opens him up, he discovers a clock where his heart should be. He takes it out and the body stops moving. The townsfolk are loving Fritz's story!

5

Just as Karl starts describing a sinister character (Dr Kalmenius) in his story, Dr Kalmenius appears in the tavern (in real life!). Fritz throws his story manuscript into the fire and runs out shouting 'have nothing to do with this man'. Karl stays in the tavern with Dr Kalmenius.

6

Dr Kalmenius offers Karl an incredible metal sculpture - a knight called Sir Ironsoul. Karl discovers that when the knight hears a trigger word, it will not stop until its sword is in the throat of the person who said it (or he hears a special tune). Karl decides to take up Dr K's offer and plans to use it for his grand unveiling tomorrow.

7

Karl leaves Sir Ironsoul in the tavern while he goes out to prepare the clock. Gretl can't go to sleep and is thinking out loud. She accidentally summons Sir Ironsoul. The sheet of canvas falls softly to the floor...

8

Remember to take lots of exercise and brain breaks away from your screen during the day!

**Click Me!**

## Activity

**Click Me!**

**Click Me!**

Write down three top tips you would tell a friend, two questions you have and one thing you already knew!





# Resource 4 Maths working wall

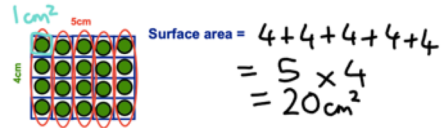
# AREA, PERIMETER & VOLUME



This working wall, just like the one in our classroom, will help you keep track of the big ideas in our learning journey.

## How do you find the area of a shape?

Do you remember this science experiment in Year 5? We were investigating whether surface area affected the time it took a parachute to reach the ground!



WHAT'S THE BIG IDEA  
Area = length x width

OR

Area = width x length

because multiplication is commutative

### Area of compound shapes



$$\text{Area of A} = 5 \times 4 = 20\text{cm}^2$$

$$\text{Area of B} = 2 \times 2 = 4\text{cm}^2$$

$$\text{Area of C} = 2 \times 2 = 4\text{cm}^2$$

$$\begin{aligned}\text{Total area} &= \text{A} + \text{B} + \text{C} \\ &= 20 + 4 + 4 \\ &= 28\text{cm}^2\end{aligned}$$

Click Me!

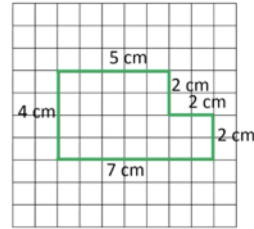
[Click here](#) to recap the lesson video!

## Area and Perimeter

### Perimeter

Distance around the outside of a shape!

Add all of the sides together...

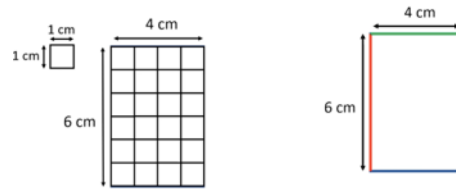


$$5 + 2 + 2 + 2 + 7 + 4 = 22\text{ cm}$$

### Area



Surface covered by a shape (measured in square units)  
Area = length x width



What is the area of the rectangle? The formula for the area of a rectangle

The area of the rectangle is 24 cm<sup>2</sup>

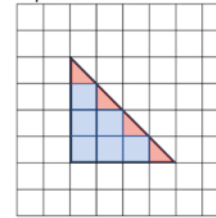
$$\begin{aligned}\text{Length} \times \text{Width} \\ 6\text{ cm} \times 4\text{ cm} &= 24\text{ cm}^2\end{aligned}$$

Click Me!

[Click here](#) to recap the lesson video!

## Area of a triangle

Each square represents 1 cm<sup>2</sup>

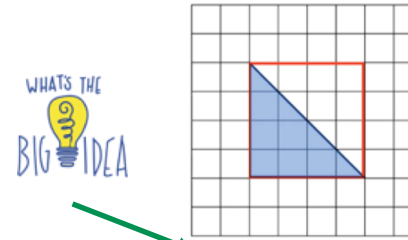


Count the squares

6 whole squares

4 half squares = 2 full squares

$$\frac{1}{2} + \frac{1}{2} = 1 \quad \text{so} \quad \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2$$



Make a rectangle

Area of rectangle

$$4 \times 4 = 16\text{ squares}$$

Area of triangle

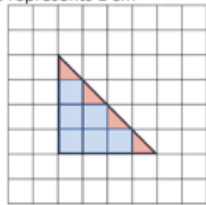
$$16 \div 2 = 8\text{ squares}$$

Click Me!

[Click here](#) to recap the lesson video!

### Area of a triangle

Each square represents 1 cm<sup>2</sup>



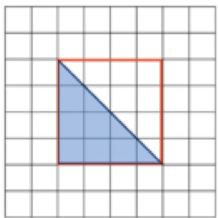
Count the squares

6 whole squares

4 half squares = 2 full squares

$$\frac{1}{2} + \frac{1}{2} = 1 \quad \text{so} \quad \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2$$

WHAT'S THE  
BIG IDEA



Make a rectangle

Area of rectangle

$$4 \times 4 = 16 \text{ squares}$$

Area of triangle

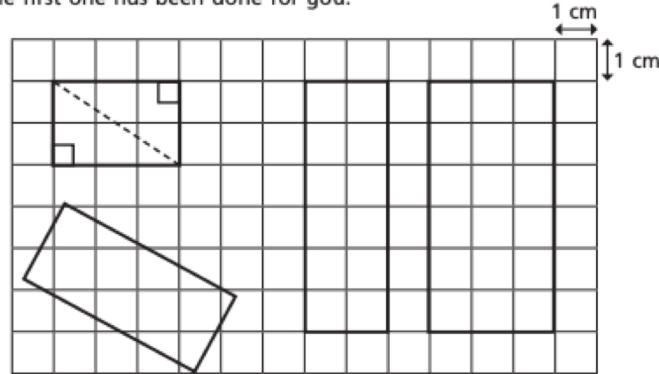
$$16 \div 2 = 8 \text{ squares}$$

We can

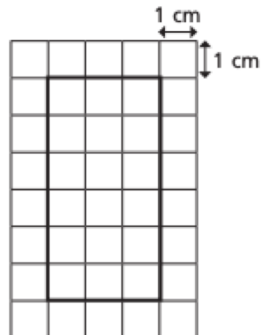
do it!

### Area of a triangle (2)

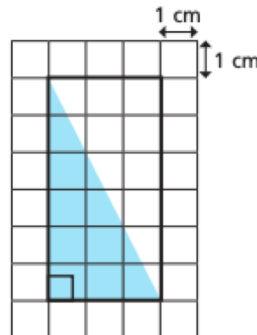
- 1 Divide each rectangle into two right-angled triangles. The first one has been done for you.



- 2 a) Calculate the area of the rectangle and the triangle.



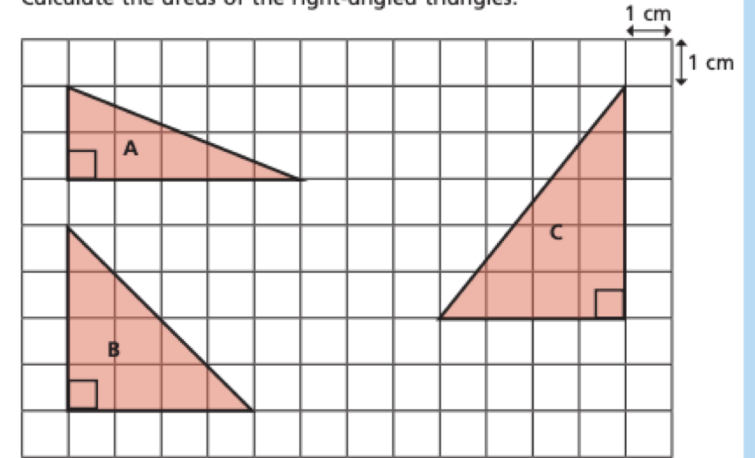
$$\text{area} = \boxed{\phantom{00}} \text{ cm}^2$$



$$\text{area} = \boxed{\phantom{00}} \text{ cm}^2$$

- b) Explain how you worked out the area of the right-angled triangle.

- 3 Calculate the areas of the right-angled triangles.

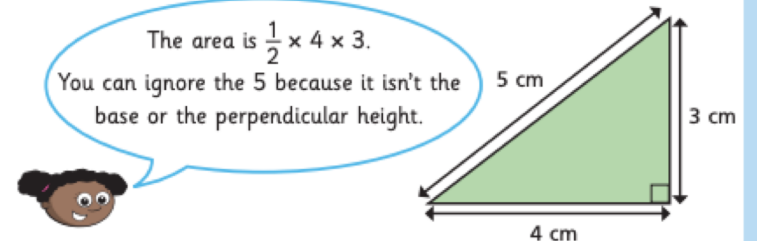


$$\text{triangle A} = \boxed{\phantom{00}} \text{ cm}^2 \quad \text{triangle C} = \boxed{\phantom{00}} \text{ cm}^2$$

$$\text{triangle B} = \boxed{\phantom{00}} \text{ cm}^2$$

- 4 Whitney is calculating the area of the triangle using the formula.

$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{perpendicular height}$$



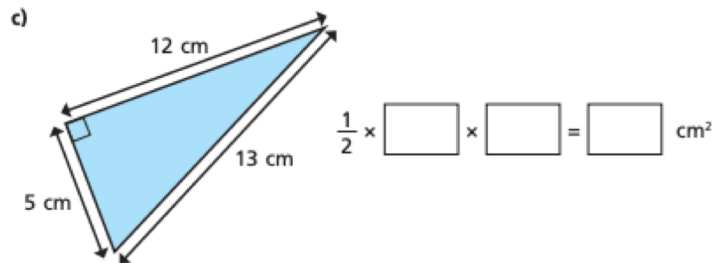
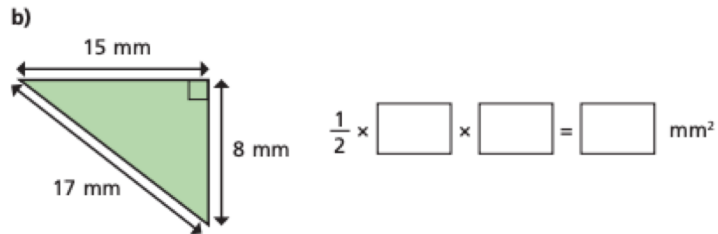
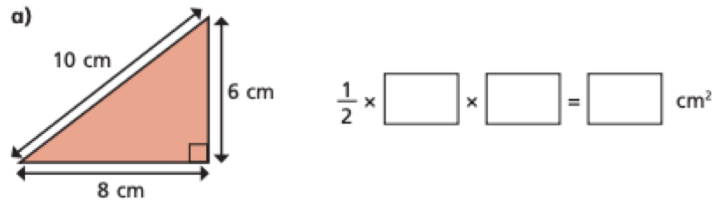
Do you agree with Whitney? \_\_\_\_\_

Talk about it with a partner.

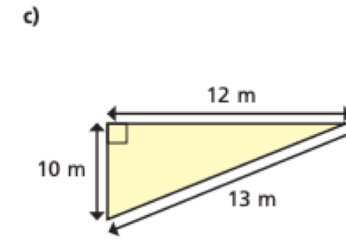
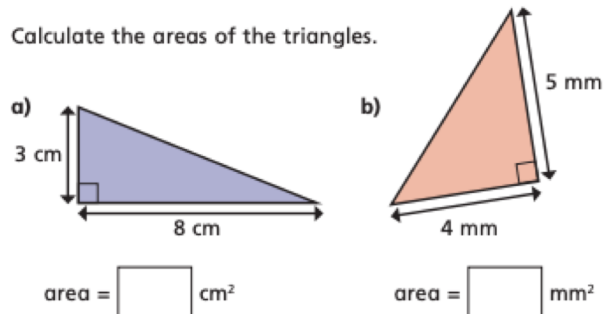
# Resource 6

## Maths

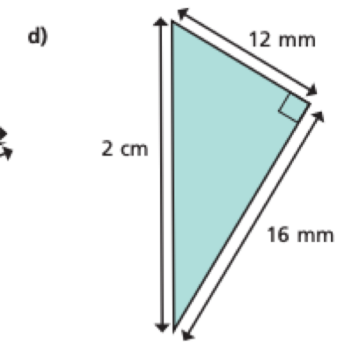
- 5 Insert the correct numbers into the formula to calculate the area of the triangle.



- 6 Calculate the areas of the triangles.

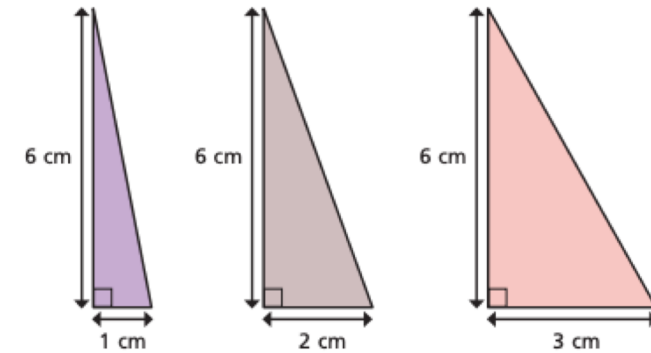


area =  $\square \text{ m}^2$



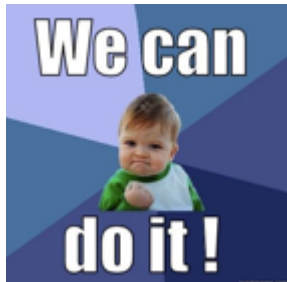
area =  $\square \text{ mm}^2$

- 7 The width of the right-angled triangles is increasing by 1 cm.



Investigate the pattern for the areas.

What happens to the pattern if the length and width increase?



Remember to take lots of exercise and brain breaks away from your screen during the day!





Have a go at learning these spellings.  
You'll get a new set on Wednesdays!

Weekly

## Spellings

accommodate

available

competition

determined

suggest

existence

identity

muscle

prejudice

rhyme

Weekly

## Word classes

2

Identify the word class of the underlined word:

- 1) He came over and he brought cake.
- 2) They relaxed under the bridge.
- 3) We should go over there soon.
- 4) We've had such a lovely day!
- 5) There were several shoes left in the hall.
- 6) The cat thoroughly cleaned its paws.
- 7) The laptop ran out of power.
- 8) He really needs to tidy his room.
- 9) The chair, which has been in my family for generations, is tattered.
- 10) I am here!

daily



achieve

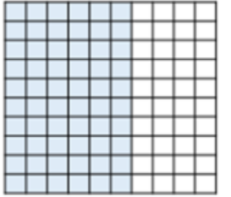
aggressive

amateur

## Flashback 4

daily

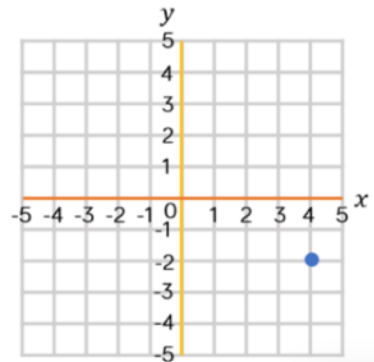
- 1) What percentage is shaded?



- 2) What is  $28 \div 100$ ?

- 3) What are the coordinates of the point?

- 4) Add together 648 m and 2,500 m



Click Me!

[Click this link](#) to see  
Miss Swainson's  
handwriting demo!

Over the course of this week, practise writing these  
Year 6 words in your best joined up handwriting!