


Year 5 Nova Home Learning PACK 4

<p>Day</p>	<p>Writing Tasks Please remember to practise your spellings and handwriting! Login to https://www.edshed.com/en-gb to access weekly spelling lists.</p> <p>MUSIC: go to https://www.singup.org/singupathome/ for free sign up to some fab activities!</p> <p>Wellbeing activities: https://www.gonoodle.com/</p> <p>Art: https://www.tate.org.uk/kids</p> <p>NEW!!!! Outdoor Art (really fab ideas!) https://www.nationalgalleries.org/art-and-artists/features/home-where-art-creative-curriculum-kids</p>	<p>Maths Tasks Please play Time Table Rockstars to practise your fluency! https://trockstars.com/ - weekly e-certificates to each class</p> <p>NEW!!! Maths challenges! https://www.mathsisfun.com/games/</p> <p>Below are some more learning tasks to revise maths skills. You will have learnt types of angles in Year 4. Use the videos and games to further your understanding! Remember you can email Miss Cuthbert and Mrs Leonard through the home learning email account if you have any questions. ZOOM IN TO VIEW!</p>	<p>Line of Enquiry Tasks: What makes planet Earth unique?</p> <p>Please use https://www.natgeokids.com/uk/ or https://www.kiddle.co/ to search safely.</p> <p>National Curriculum coverage: Human & Physical; Geographical Skills describe the parts of a river, explain key aspects of mountains, describe the water cycle; use 6 figure grid references, symbols and keys</p>
<p>1</p>	<p>LO: To write a set of instructions for a pentathlon</p>  <p>First read the task in today's Line of Enquiry box. When you have designed your pentathlon event, think about how you would instruct someone to complete them and write a short set of instructions. Success Criteria: Title Intro (what is a pentathlon?) What you need What to do Diagrams or pictures</p>	<p>Starter: complete "Fluent in Five – Year 5; Week 2 - Day 1"</p> <p>LO: to label types of angles</p> <p>https://youtu.be/2JSk0DC5q4g - watch this video to 1.35 and then complete the activity below. Use the pictures at the end of the pack to help you.</p> <p>Read each step and label the angles: acute, right, obtuse, straight or reflex angles.</p>	<p>PE/PSHE</p> <p>LO: to design a pentathlon</p> <p>IDEAS TO HELP – CHECK THE VIDEOS! https://activehumber.co.uk/programmes/pe-and-school-sport/school-games/school-games-isolation-challenge</p> <p>It is really important to keep our brains and bodies active so...design a pentathlon in your garden, an outdoor space or in your home. There will need to be five events including RUNNING, THROWING and JUMPING activities. This could be a</p>

Safety tips

Step 1

An acute angle is an angle between 0° and 89°. It is smaller than a right angle.



Step 2

A right angle is an angle that is exactly 90° and is marked by a square.



Step 3

An obtuse angle is an angle between 91° and 179°. It is bigger than a right angle but smaller than a straight line angle.



Step 4

A straight line angle is exactly 180°.



Step 5

A reflex angle is an angle between 181° and 359°. It is bigger than a straight line angle but smaller than a full turn (360°).



Label the following angles.

<http://www.math-play.com/Tic-Tac-Toe-Game-Classifying-Angles/Tic-Tac-Toe-Game-Classifying-Angles.html5.html> - play this game of Tic Tac Toe to select the correct angle type!

combination of throwing something into a marked circle, running a circuit or skipping. It's up to you to design the circuit. Challenge someone at home to follow your instructions in order to take part in each event.

Send pictures into the home learning email address if you can.

2

LO: to practise reading comprehension (RE focus)



You will be finding out about Ramadan which is a very important time in the Islamic calendar, and Muslims all over the world take part.

Find out more:

<https://www.bbc.co.uk/newsround/23286976>

Starter: complete "Fluent in Five – Year 5; Week 2 - Day 2"

LO: to find missing angles on a right angle and straight line

<https://www.youtube.com/watch?v=F8GVmwoBq-E> – watch for Step 1

<https://www.youtube.com/watch?v=cBIJmmz8fil> – watch to 2.08 for Step 2

Tip Before you calculate, estimate:

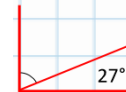
- The type of angle (e.g. acute)
- The degrees (e.g. it's looks like half a right angle so must be near 45°)

Step 1

To find the missing angles of a right angle, we know that a right angle is exactly 90°, so we add the known values, then subtract from 90°.

$$90 - 27 = 73$$

So the missing angle is 73°



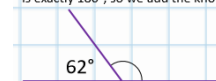
Find the missing angles:

Step 2

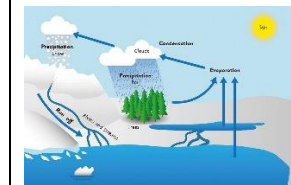
To find the missing angles from a straight line angle, we know that this angle is exactly 180°, so we add the known values, then subtract from 180°.

$$180 - 62 = 118$$

So the missing angle is 118°



LO: to describe the water cycle.



Go to:


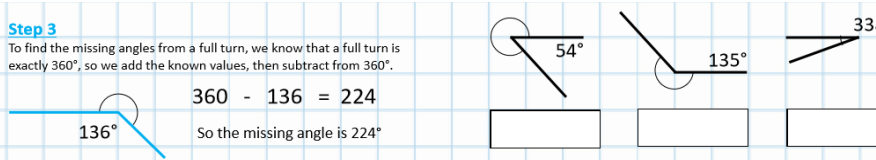

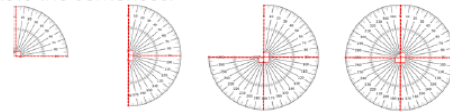
<https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/z3wpp39>

Listen and read carefully. Then go to our Y5 web page and open the Water cycle activity sheet where you will have to add labels.

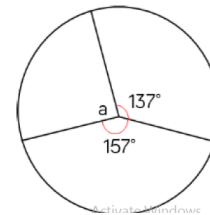
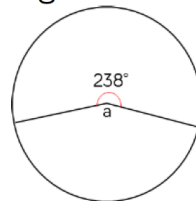
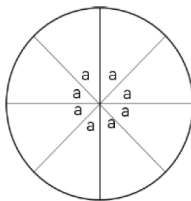
Your task is to make a drawing of the water cycle and label it carefully.

There is also a diagram PPT in the Y5 folder.

Spell technical words carefully!

	<p>Go to the 'Reading Comprehension' folder on the Y5 web page and find the text about Ramadan. There are three levels of difficulty and answers for you to self-check. Be sensible – choose the level that gives you some challenge!</p>		
3	<p>LO: to practise reading comprehension</p>  <p>Go to the 'Reading Comprehension' folder on the Y5 web page and find the text about The Red Planet</p> <p>There are three levels of difficulty and answers for you to self-check. Be sensible – choose the level that gives you some challenge!</p>	<p>Starter: complete "Fluent in Five – Year 5; Week 2 - Day 3" LO: to calculate a missing angle on a full turn</p> <p>https://www.youtube.com/watch?v=Yt2yvO-xkhY - watch to 3.37</p>  <p>Step 3 To find the missing angles from a full turn, we know that a full turn is exactly 360°, so we add the known values, then subtract from 360°.</p> <p>$360 - 136 = 224$ So the missing angle is 224°</p> <ol style="list-style-type: none"> 1. Watch the video and complete the three questions. 2. Create a poster to show how to calculate missing angles. Include a missing: <ul style="list-style-type: none"> - Angle on a right angle - Angle on a straight line - Angle on full turn 	<p>LO: to describe the water cycle. Go to the PPT clip on the Y5 web page and read each slide.</p> <p>Then, write a short explanation of how the water cycle works. Find two more 'Fun Facts' about the water cycle. Explain each of these technical words carefully.</p> <ol style="list-style-type: none"> 1. Evaporation 2. Condensation 3. Precipitation 4. Accumulation
4	<p>LO: to practise reading comprehension</p>  <p>Go to the 'Reading Comprehension' folder on the Y5 web page and find the text about Captain Tom Moore.</p> <p>There are three levels of difficulty and answers for you to self-check. Be sensible – choose the level that gives you some challenge!</p>	<p>Starter: complete "Fluent in Five – Year 5; Week 2 - Day 4" LO: to calculate a missing angle on a full turn</p> <p>https://www.youtube.com/watch?v=mdAwUsf0k1s – watch to 1.43</p> <p>Complete the sentences.</p>  <div style="border: 1px solid green; border-radius: 15px; padding: 10px; background-color: #e0ffe0;"> <p>$\frac{1}{4}$ of a turn = 1 right angle = 90° $\frac{1}{2}$ of a turn = __ right angles = ____° — of a turn = 3 right angles = ____° A full turn = __ right angles = ____</p> </div>	<p>Science: LO: to apply your knowledge of the water cycle</p> <p>Go to the Y5 web page and open: Water Cycle in the Bag Model Science Experiment</p> <p>If you have all you need, have a go at this fun science experiment to understand further understand the water cycle.</p>

Calculate the missing angles.



5

LO: to practise reading comprehension



Go to the 'Reading Comprehension' folder on the Y5 web page and find the text about The Water Cycle

There are three levels of difficulty and answers for you to self-check. Be sensible – choose the level that gives you some challenge!

Starter: complete "Fluent in Five – Year 5; Week 2 - Day 5"

Angle challenge day!

LO: to use angles on a compass.

Turn	Degrees	Type of Angle
North East to South East Clockwise	90°	Right Angle
North West to North West Clockwise		
South West to South East Anti-clockwise		
South West to _____ clockwise	180°	
North East to East Clockwise		

Tip:

- Between each main point is 90° (N -> E is 90°, E-> S is 90°)
- Between each main point and small is 45° (S -> SW is 45° SW-> W is 45°)

Task:

1. Complete the table above. You may find it easier to add in 45° steps between points.
2. Create a set of instructions for someone to follow.
e.g.
- Face South
- Turn 90° clockwise
- What direction are you now facing?
- Turn 45° anticlockwise
- What direction are you now facing?

Science:

LO: to apply your knowledge of the water cycle

YOU MUST ASK FOR ADULT HELP TO BOIL WATER!

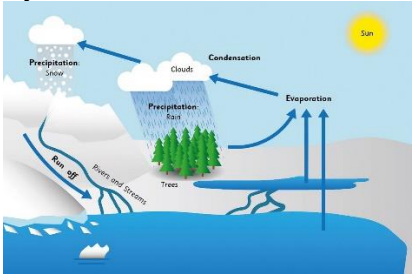

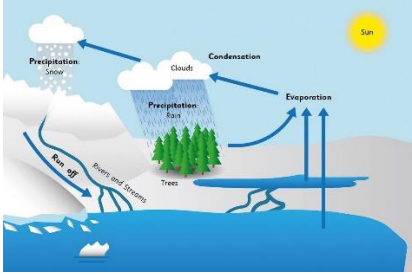


way up the jar.

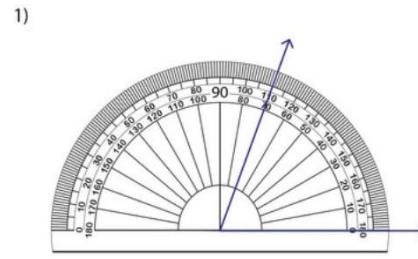


Go to the

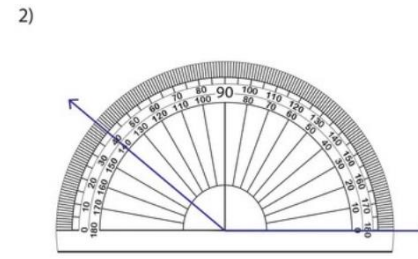
Y5 web page and read the instructions for the **Precipitation experiment**. Carry out the experiment if you can then record on the science sheet in the folder.

		<p>Play this game to make the angles shown: https://www.topmarks.co.uk/Flash.aspx?a=activity16</p>	
6	<p>To make an information poster about 'The Water Cycle'</p>  <p>Now that you know about how the water cycle works, use your learning to design an info poster, lift the flap booklet or fact file to explain it to an audience.</p> <p>Success Criteria: Bold heading and subheadings Info grouped under headings Make it eye-catching for the reader Be careful to spell technical words from your learning accurately Colourful illustrations HUGE CHALLENGE: this would be a great way to display your learning but it is tricky! https://www.youtube.com/watch?v=z9U2SFyMuyw</p>	<p>Starter: complete "Fluent in Five – Year 5; Week 3 - Day 1" LO: to read acute, obtuse and right angle angles</p> <p>https://www.youtube.com/watch?v=Gzd_IsNwTOI – watch to 2.05</p> <p>Click on the link and select: Angles http://www.crickweb.co.uk/ks2numeracy-tools.html#angle</p>  <p>Click these buttons to change the angle: Type in your estimate and check!</p> <p>Tip Before you calculate, estimate:</p> <ul style="list-style-type: none"> • The type of angle (e.g. acute) • The degrees (e.g. it's looks like half a right angle so must be near 45°) 	<p>French</p> <p>LO: to use city names in French.</p> <ol style="list-style-type: none"> 1. Become familiar with the French words for the fingers https://www.youtube.com/watch?v=ucOkATnCnck 2. Watch the video presentation on the school website 3. Illustrate each of your words with a funny picture. <ol style="list-style-type: none"> 1. Oui ! 2. Non ! 3. C'est Cardiff? 4. C'est Édimbourg ? 5. C'est Londres ? 6. C'est Belfast ? 7. C'est Paris?
7	<p>To make an information poster about 'The Water Cycle'</p> 	<p>Starter: complete "Fluent in Five – Year 5; Week 3 - Day 2" LO: to read acute, obtuse and right angle angles</p> <p>Re-watch video from yesterday to remind you! Tip:</p> <ol style="list-style-type: none"> 1. Estimate the angle first e.g. it is past 90° so is obtuse 2. Start with the line at 0 and count up until you reach the next blue line. 	<p>Design & Technology</p> <p>LO: to experiment with a recipe</p> <p>Have a go at this no-bake recipe! It's a favourite of Miss Cuthbert's when she was a child. We call them "Fifteens" in Belfast – not sure if they have a name in England! Experiment with whatever ingredients you have in the house. For example, swap</p>

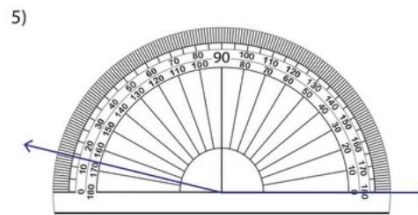
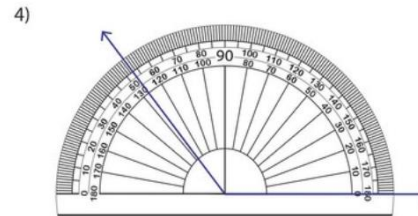
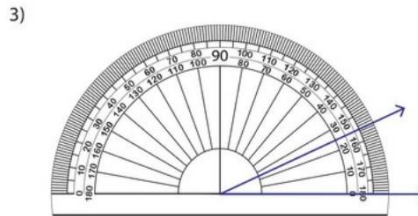
Continue to work on and finish your info poster.
Send it to homelearning and we will put it on Nova
Twitter. Have fun!



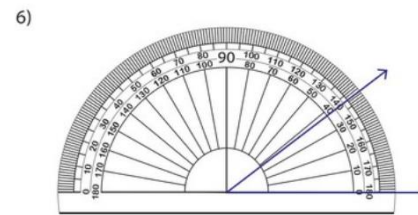
Angle: _____



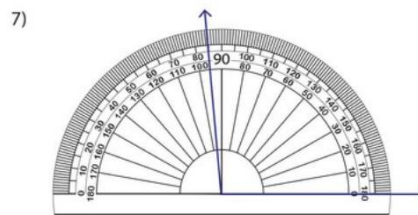
Angle: _____



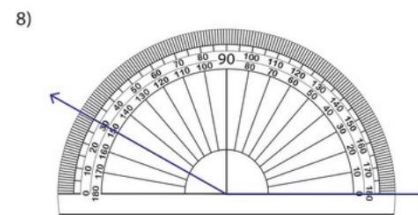
Angle: _____



Angle: _____



Angle: _____



Angle: _____

digestives for hob-nobs or
cherries for chocolate chips!

15 digestive biscuits
15 marshmallows
15 glacé cherries, cut
in half
about 200ml condensed
milk
100g desiccated coconut,
to coat

1. Crush the digestive biscuits in a food processor or in a plastic bag with a rolling pin, then put them in a large mixing bowl.
2. Chop each marshmallow into 4 pieces and add to the bowl with the cherries and 175ml condensed milk. Mix until the ingredients are well combined and you have a sticky mixture. If it's too dry, add a splash more condensed milk.
3. Sprinkle most of the coconut over a large piece of cling film (or foil). Tip the mixture onto the coconut and shape into a long sausage, about 30 x 5cm.
4. Sprinkle more coconut over the top of it and wrap the cling film tightly around, twisting the ends together.
5. Leave in the fridge to chill for 4-6 hrs, then cut into 15 slices and serve. Will keep in the fridge for up to 1 week wrapped in cling film.

8

LO: to check and edit spelling mistakes.

ZOOM IN

Use a dictionary or online dictionary to check if you are not sure.

Starter: complete "Fluent in Five – Year 5; Week 3 - Day 3"

LO: to estimate angles

Angle game day!

PSHE

LO: to practise mindfulness techniques

Each sentence below has one word that is incorrect. Write the correct spelling of word in the box.

1. How could Sarah perswad her mum to stay out later?
2. The school trip was to an anshient temple.
3. Mohammad really wanted to win the compitishion.
4. Loki, the dog, hated thunder and litening.
5. There was a worrying sound coming from the vehcle.
6. It won't be nesenary.
7. The tempracher in the classroom was increasing
8. The lady next door was being a newsance.

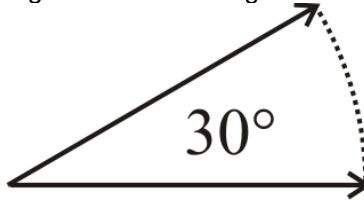
Play the two games below to estimate angles. Remember to label them either acute, obtuse, right, straight or reflex first! Review types of angles at the bottom of this document if needed.

<https://www.mathplayground.com/alienangles.html> - have a go at estimating the angles displayed! Pull along the red button to draw the angle. Then, press the rocket to check!

<https://nrich.maths.org/1235> - click the circle to start the angle drawing, click it again when you think it is on the target angle!

Extension: ask someone to say an angle and estimate it by drawing it out! Remember to consider the angle type first.

e.g. "Estimate 30 degrees" – *this is less than 90° so is acute*



Nature's beauty

- ☆ Take a deep breath in and out.
- ☆ Imagine a bright blue sky; what feeling does this give you?
- ☆ How about being on green grass?
- ☆ Look at the colours. Can you make them brighter in your mind? – the brighter the bigger the sensation!
- ☆ What do you notice about how different colours make you feel?



Bucket analogy – Part 1

- ☆ Imagine your body is a bucket.
- ☆ When we get anxious or upset our stress hormones pour in and can spill over.
- ☆ If this happens we might cry or get angry.
- ☆ We need to think of the things that start to make us feel upset much earlier.
- ☆ Little things might add up or a few bigger things might fill your bucket.
- ☆ Think of worries that upset you, draw them in your bucket as water levels or pebbles. What fills up your bucket/body?



Extension: Create a picture to illustrate everything that makes you happy. It may be a picture of you and your dog baking, while listening to your favourite song!

9 The spelling mistakes in these sentences have been circled. Write the correct spelling for each circled word in the box.

- The teacher expected a better explanation.
- The family owned a mischivus puppy.
- Bill and Ann found the avarage weight of the potatoes.
- "My new TV was a bargin" exclaimed Paul.
- Fatima practised her new signicher.
- Mr Jones couldn't garantee a place in the play.
- Jane was desprete for a holiday in the sun!
- "Is this relivent?" asked Mary.

Starter: complete "Fluent in Five – Year 5; Week 3 - Day 4"
LO: to understand the difference between regular and irregular polygons.

<https://www.youtube.com/watch?v=UeKN5-ogFTs>

Play this game: <https://www.turtlediary.com/game/regular-or-irregular-polygon.html> - You need to throw the monkey's bananas at the type of polygon it says! If you feel confident, select level 2 or 3!

Irregular polygons

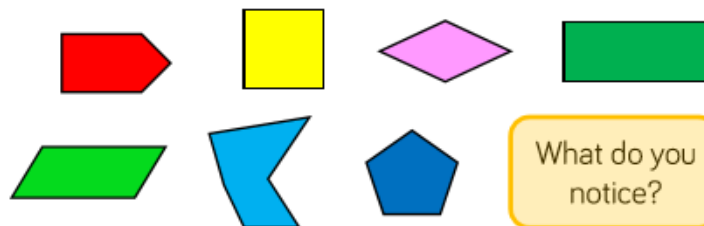
Irregular polygons have sides of different lengths and angles.

Regular polygons

These are shapes with sides of the same length and angles. These include pentagon which has 5 sides, hexagon has 6, heptagon has 7, and octagon has 8 sides.

Task:

Look at the 2D shapes. Decide whether the shape is a regular or irregular polygon. Measure the angles in each one.



Science

LO: to solve and create science brainteasers.

Can you solve these Space words using the emoji clues?

1	2
3	4
5	6
7	8
9	10

Answers are at the bottom of the pack.

Task: draw your own emoji brainteasers for each stage of the water cycle! Challenge someone at home to decode your emojis!

10 LO: to check and edit spelling mistakes.
ZOOM IN
 Use a dictionary or online dictionary to check if you are not sure.

Starter: complete "Fluent in Five – Year 5; Week 3 - Day 5"
LO: to understand the difference between regular and irregular polygons.

Watch this video to recap on the difference between regular and irregular polygons:
<https://www.youtube.com/watch?v=UN57vvrMrY4>

Play this game to secure your understanding:
<https://eng.mathgames.com/skill/5.111-regular-and-irregular-polygons>

PE

LO: to practise balancing techniques

Cereal box challenge! You will need another player for this – why not challenge someone at home to see who can be the Cereal Box Master!

Each sentence below has one word that is incorrect. Write the correct spelling of the word in the box.

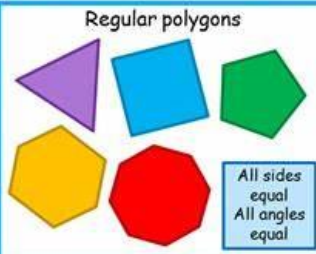
1. Tim was not sure that he would acheeve his goal.
2. The whole show was completely disasterous.
3. My identittee has been stolen!
4. Is it really necessarry to shout as loud as that?
5. Which veacul is your favourite?
6. Lightening struck the house next door last night.
7. "Your work has been exsellent today," said Mrs Holden.
8. Which catgory will you choose?

Task: create a poster, using labelled diagrams, to demonstrate the difference between regular and irregular polygons. (Hint: use the definitions from yesterday!)

Regular polygons

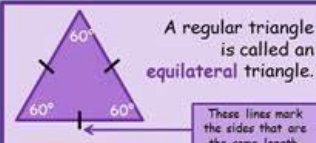
A regular polygon has equal sides and angles.

Regular polygons



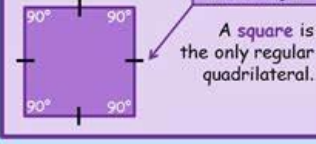
All sides equal
All angles equal

A regular triangle is called an equilateral triangle.



These lines mark the sides that are the same length.


A square is the only regular quadrilateral.



Watch Out!

A rectangle is irregular because it has different side lengths, even though each angle is 90°. ❌

Irregular polygons



Angles or sides not equal

You will need: an empty cereal box!

- Place the cereal box on the floor.
- Pick the cereal box up using only your mouth.
- Nothing but your feet can touch the floor.
- If successful tear an inch from the top of the cereal box and play the game again.
- Repeat the challenge, taking an inch from the box each time.
- Top tip: hold onto your leg/s to help you to balance









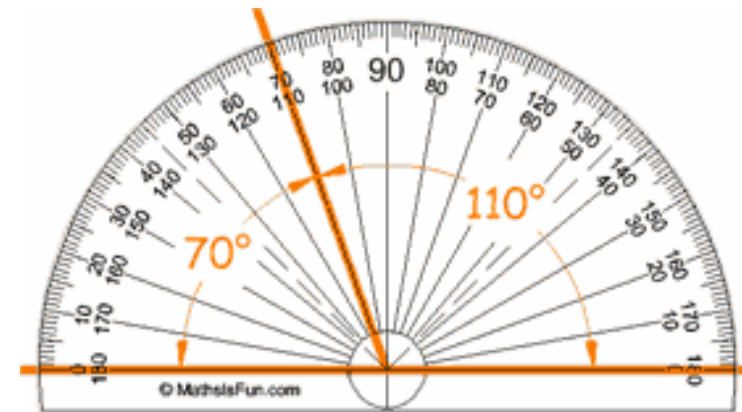
How low can you go?

Extra challenge: how low can you bend down when standing on only one leg?






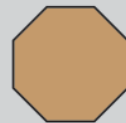





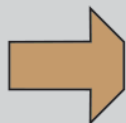
Extra resources to support understanding

Angle types:

<p style="color: blue; font-size: small;">Acute Angle</p>  <p style="background-color: #007bff; color: white; padding: 2px; font-size: x-small;">Less Than 90 Degree</p>	<p style="color: red; font-size: small;">Right Angle</p>  <p style="background-color: #dc3545; color: white; padding: 2px; font-size: x-small;">Exact 90 Degree</p>	<p style="color: green; font-size: small;">Obtuse Angle</p>  <p style="background-color: #28a745; color: white; padding: 2px; font-size: x-small;">Greater than 90 degree and less than 180 degree.</p>
<p style="color: purple; font-size: small;">Straight Angle</p>  <p style="background-color: #6f42c1; color: white; padding: 2px; font-size: x-small;">Exact 180 degree.</p>	<p style="color: orange; font-size: small;">Reflex Angle</p>  <p style="background-color: #ffc107; color: white; padding: 2px; font-size: x-small;">Greater than 180 degree.</p>	<p style="color: purple; font-size: small;">Full Rotation</p>  <p style="background-color: #6f42c1; color: white; padding: 2px; font-size: x-small;">Exact 360 degree.</p>

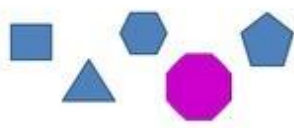
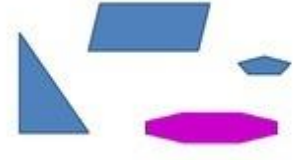


Regular and irregular polygons:

<i>A polygon can have three or more sides.</i>	3 sides Triangle	4 sides Quadrilateral	5 sides Pentagon	6 sides Hexagon	7 sides Heptagon	8 sides Octagon
Regular Polygons <i>all sides are equal length and all internal angles are equal</i>						
Examples of Irregular Polygons <i>any polygon that is not regular</i>						











Polygons

A 2-dimensional shape that has three or more straight sides.

Regular Polygon	Irregular Polygons
A polygon with equal sides and angles	a figure where the sides and angles are not all equal
	

Space brainteaser answers:

Can you identify which space words these emojis are showing?

1 	Neptune	2 	Black hole
3 	Big Bang	4 	Shooting star
5 	Planet	6 	Meteor shower
7 	Milky Way	8 	Rocketship
9 	Meteor	10 	Sun