English

Thursday 25th February 2021

<u>Objective: To plan and write the introduction to my</u> <u>explanation text.</u>

Miss Hardy is teaching this lesson on Teams at the following times:

- 5H 9-10
- 5M 10-11
- 5L 11-12

<u>Success Criteria</u>

1. I can use my flowchart to plan my introduction.

- I can use most of the features of explanation texts.
- 3. I can write a clear introduction to the explanation about my invention.

Starter: grammar

Circle the determiners in each sentence below:

 The old man picked up the first pizza he saw.

2) Twenty three birds flew overhead.

3) Our dog is at the vets.

4) The noise was in the distance.

5) An apple fell from the tree.

6) The boys took got their cat out of the tree.

Recap of explanations and our inventions

- What is the purpose of an explanation text?
- What do they have to include?
- Let's revisit the examples...

• What is your invention that you are going to explain?

- Explanations answer the questions "how" How does a pump work? or "why" Why do some things float or sink? "
- 2. They have a clear title.
- 3. Ideas are grouped in paragraphs
- 4. The first paragraph introduces the subject and is general.
- 5. There are at least 3 sentences in a paragraph
- They use cause/effect connectives (then, as a consequence, so, if, because, as a result, therefore).
- They often use time connectives and openers (first, then, following, finally).
- They are written in the present tense (are, turns, happens).
- 9. They use action verbs (falls, rises, changes).
- 10. They may have sub-titles and a glossary
- 11. They use specialised vocabulary that is specific to the topuc and may be explained in theglossary.

How bees make honey



Honey bees collect nectar and pollen from flowers, but only nectar is used to make honey. Nectar is a "reward" given by the plant to attract bees. Pollen is transported back to the hive in the pollen baskets on the hind legs whereas the nectar is transported in the stomach. Nectar is mostly water with dissolved sugar. The amount of sugar varies greatly but is usually 25-50%. Back in the hive the nectar is placed into wax honeycomb cells and the excess water evaporates until the honey is approximately 83% sugar and 17% water. This takes a few days. The cell is then covered over with a layer of wax which is later removed when the bees need to eat the honey. When large amounts of nectar are being collected the bees speed up evaporation by using their wings to ventilate the hive.

The sugar is also changed. Sugar in nectar is mostly sucrose (table sugar). Sucrose has large molecules. The bees produce an enzyme which breaks each sucrose molecule into two smaller sugar molecules, glucose and fructose. By evaporating the excess water and converting the sucrose into smaller sugars the bees make the honey too concentrated for yeasts and other microorganisms to grow. Preventing spoilage is important to the bees because the honey made in the summer is used as winter food.

Without at least 10kg of honey a bee colony cannot survive the winter, when there are no flowers. In addition to sugar, nectar contains other chemicals. Although these are only present in small amounts they are important because they give different honeys their distinctive colours and flavours. Although the bees from one colony collect nectar from many species of plants, at certain times they collect most of their nectar from one or a few species of plants that are very abundant. These "nectar flows" are responsible for most of the honey that actually gets stored. Beekeepers often harvest honey after a nectar flow, thereby producing honey predominantly from a single plant species and with a characteristic flavour and colour.







Did You Know?

- * Beekeepers often move their hives to places where there are lots of flowers. The hives are moved by vehicle at night when the bees are all inside. *A full-time bee farmer usually keeps 1000 or more hives. With 30,000 bees per
- hive that makes 30 million bees to look after.
- *The bees in a hive help each other to forage more efficiently by telling each other the direction and distance of flower patches using the "waggle dance". *The Quran says this about bees and honey "From its belly comes forth a fluid of many hues, a medicinal drink for men". In other words, honey is good for you!

How Amazing!

- *When full, the honey stomach can weigh more than half a forager bee's unladen weight and the forager's abdomen is visibly longer.
- * It takes approximately 50,000 bee loads of nectarto make one pound of honey. *Honey bees will collect nectar as far as 14km (8 miles) from their hive.
- * The ancient Egyptians used honey to help wound healing. Modern science has shown that honey kills bacteria and honey is coming back as an antiseptic.

The water cycle

The water cycle is also known as the hydrological cycle. There is the same amount of water on the Earth now as there was when the Earth began. The water cycle is how the earth's water recycles itself.

The cycle includes <u>precipitation</u>, <u>evaporation</u>, <u>condensation</u>, and <u>transpiration</u>. Earth's water keeps changing from liquid water to vapour and then back again. This cycle happens because of the sun's heat and gravity.

How does the Water Cycle work?

- 1. First of all, water <u>molecules</u> from lakes, rivers, streams, reservoirs, and the sea get heated up by the sun and then turn into vapour that rises into the air.
- 2. Next, these water molecules form into clouds, this is because a process called condensation occurs.

3. When the air and the water cool, they form drops of water which then fall to the earth as rain. If they are frozen, they become snow or sleet.

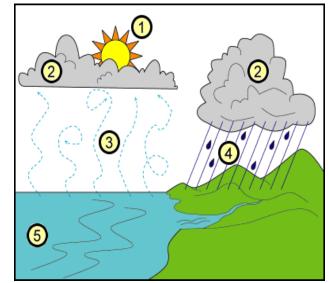
4. Once the water reaches the ground, it can flow across the land until it reaches rivers, lakes, streams, or the sea.

It can also sink into the ground and flow because of gravity through gaps in rock, gravel and sand. Because of this, it reaches these bodies of water too.

5. Now the cycle begins again, when water is evaporated once more.

Why is water important?

Many of us think water will always be there for us when we want it. Without water, living things would die. You will die if you go without water for more than a week. Plants will die without water and that would kill all of the animals that eat the plants.



How to Fly a Hot Air Balloon

A hot air balloon consists of a basket, four big gas tanks, a burner and the balloon or 'envelope'.

First, the pilot puts four nylon poles into sockets on top of the basket. Then she puts the burner on top of the poles. Next, she connects the cables to the burner frame. The cables also go under the basket in order to hold everything together. After this, she connects the hoses from the full gas tanks to the burner so that she can test.

Next, two people hold the mouth of the balloon open while it is filled with cold air from the fan until it is quite fat and tight.

Now for the difficult bit. The pilot lies on the ground, half in the basket. She turns on the gas burner and points the flame into the 'mouth' of the balloon. This is so that the balloon slowly stands up.

When the pilot is ready to go, she heats up the air in the balloon a bit more. This results in the air in the balloon to be hot enough to get the balloon to rise off the ground.

What should our introduction do?

- The key thing about the first paragraph is that it is a general introduction to the topic.
- It needs to grab the reader's attention!
- It needs to be clear yet descriptive.

We are going to write our introductions together now. * Leave a couple of lines before your start writing. * Miss a line in between each line as you write. • It's a good idea to start off with a question that asks someone if they have the problem your machine solves:

Do you struggle to get out of bed in the morning?

Write the opening sentence or question to your own introduction.

- You then answer the question by talking about the machine you have invented.
- Well, you should try using the 'Getter-out-of-bedder' machine! It's fast, effective and loads of fun!
- Write the next two sentences of your introduction.

• Finally, you need to tell the reader you will go on to explain how the machine works.

But how does it work? Let me tell you.

• Write the final two sentences of your introduction.

<u>Your task</u>

Finish your introduction independently.

You need to do the following:

- Add a catchy, clear and interesting title
- Add in some interesting, descriptive words
- Proof-read for spelling or grammar mistakes
- Add in an extra sentence or two
- Add some conjunctions or fronted adverbials
- Read aloud and check it makes sense



Chance to share our introductions.