

# Year 4 - Computing

## Online Safety

### 05.09.25 Lesson 1: What happens when we search online?

#### NC Objectives:

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

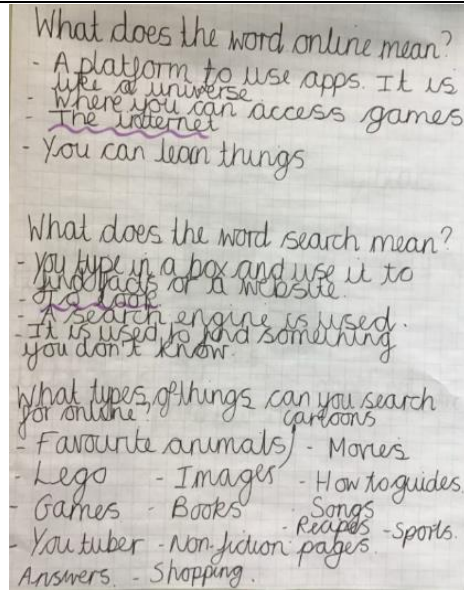
**Key Vocabulary:** Accuracy reliable snippets trustworthy advertisements search results sponsored

**LO:** To describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy.

#### Recap and recall:

Before starting this unit, check if the children can recall:

- ✓ The internet can affect your moods and feelings.
- ✓ Personal information should not be shared online.
- ✓ People on the internet who are unknown are strangers and not always who they say they are.



#### Dealing with upsetting content:

- Block the person
- Tell a trusted adult
- Speak/show your parents
- Report to the platform
- Leave the game/app
- Delete the game
- Decline unknown numbers

#### Being online can affect your mood

- Watching violent content can make you violent
- Inappropriate content can change your personality - it can make you rude or unkind
- Playing competitive games can hype you up - they are not relaxing
- It can make you grumpy & stop you wanting to go out and do things

What does online mean?  
Being connected to the internet.

What type of things can you search for online?  
a TV, apps, teddies, school supplies, shoes, rugby balls, school uniform, silly pictures, clothes, facts & information, books, bottles, bags, games for learning, houses, mattress, holidays & flights, hotels

#### Pre- Assessment:

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Use this image to answer the following questions:

- 1 Is it important to be careful about the amount of time we spend on technology? Why?  
Yes, because your nervous thoughts you will forget and will hurt your eye.
- 2 What do 'bots' do and in what ways can they be useful?  
I don't know.
- 3 What does a strong password look like? Why is it strong?  
1: penguin5555501-puppi  
2: naughty1ean3671x9804521ean.naughtybocky

Year 4 - Online safety

Use this image to answer the following questions:

- 1 Is it important to be careful about the amount of time we spend on technology? Why?  
You won't be able to sleep.
- 2 What do 'bots' do and in what ways can they be useful?  
They can scan people.
- 3 What does a strong password look like? Why is it strong?  
you can use your thumb

Use this image to answer the following questions:



1 Is it important to be careful about the amount of time we spend on technology? Why?  
 Yes, because it is bad for your health.

2 What do 'bots' do and in what ways can they be useful?  
 I am not sure but I think they can play music help with things.

3 What does a strong password look like? Why is it strong?  
 keeps things safe like private things.

Use this image to answer the following questions:



1 Is it important to be careful about the amount of time we spend on technology? Why?  
 Yes because then you get your eyes damaged and it makes you tired or dizzy.

2 What do 'bots' do and in what ways can they be useful?  
 I don't know.

3 What does a strong password look like? Why is it strong?  
 Do not use the same number again and again.

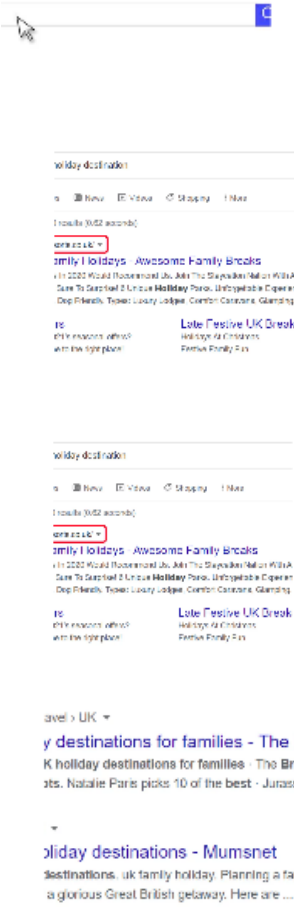
**Main Event:**

**Key Questions:**  
 Why would a company pay for an advertisement?  
 Does it mean this product is better than others?  
 Is the snippet reliable?  
 Should we believe everything we read?

**Search.**

**Search engines**

We can use a search engine to find websites to help us find the perfect holiday.



**Advertisements**

The first few searches have 'ad' next to them. This indicates that someone has paid to have their website displayed first.

**Advertisements**

- Does this mean they have the best destination in the UK?

**Results**

The rest of the search results are then displayed.

- Are these more reliable?

**Activity:**

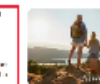
14 Family Holiday Destinations for 2021 - [Sydney](#)



**Snippets**

Snippets are further down the search page. These provide a quick answer or summary.

14 Family Holiday Destinations for 2021 - [Sydney](#)

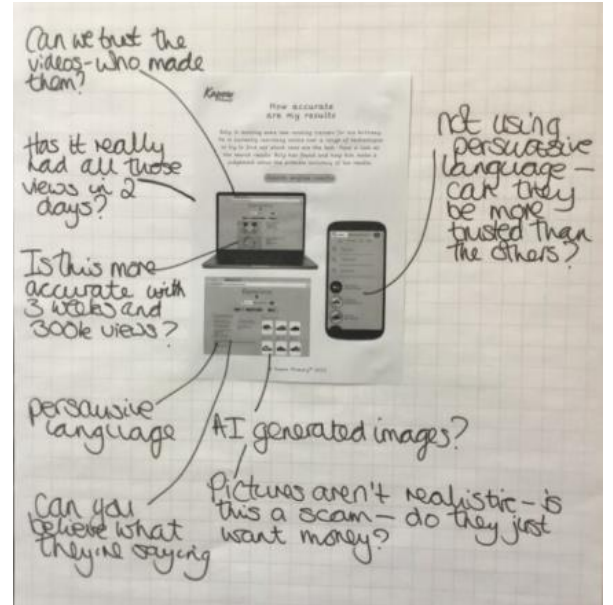
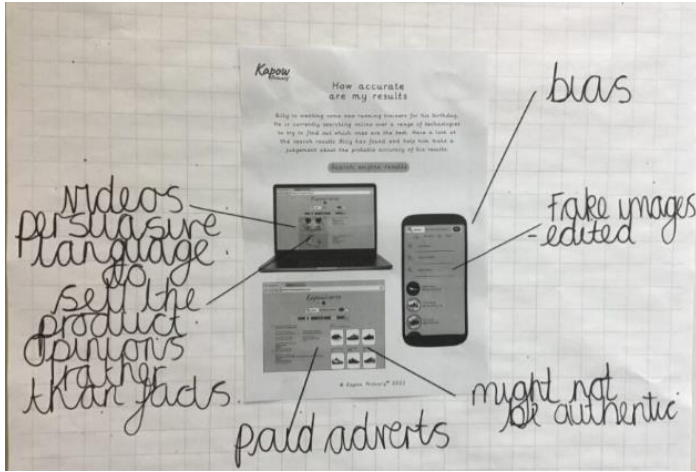


**Snippets**

Snippets are further down the search page. These provide a quick answer or summary.

**Fake images**





### Activity

Billy has been searching for some new running trainers.

Look at Billy's search results and help him evaluate the results' accuracy.

## 07.11.25 Lesson 2: How do companies encourage us to buy online? VS/SUPPLY

### NC Objectives:

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Key Vocabulary: ad, in-app purchases, influencer, recommendation.

LO: To describe some of the methods used to encourage people to buy things online.

### Brain dump:



### Brain dump

Write down everything you learnt in the last lesson about the reliability of search results.

Adverts and sponsored links are displayed at the top of the search results.

Adverts often use persuasive language and can contain opinions rather than facts.

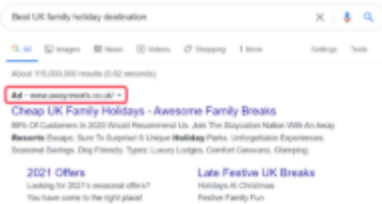
Snippets are shown after adverts and are often displayed when a question has been searched.

Snippets may be more reliable than adverts, but they still need to be checked for bias and authenticity.

Not everything online is reliable and can be opinions rather than facts.

Videos and images can be fake and are easily manipulated.

### Main Event:



## Advertisements

Ads or sponsored content may appear next to the first few search engine results. This means the company has paid to have its website displayed first.

Key Questions:  
Why do adverts appear at the top of the page?

## Influencers



## In-app purchases are extra content or services bought within a free app.



## Recommendations

Websites often monitor your online movements.

For example, if you are searching for trainers, you may notice similar content appearing in your stream.

They could be images, videos or links to products to buy.

96% of apps have in-app purchases. This means people can pay for something whilst in an app.

Influencers influence their followers' behaviour. This is usually their shopping habits.

### Activity:

Scenario cards

John and his brother love watching a celebrity reality show every Saturday night. They have downloaded the free app and have cast their vote. Just before the show ends, John decides he wants to vote for somebody else so he tries to place another vote but has already used his free token for the evening. He decides to vote anyway. John's parents found a charge of 99p on his mobile phone bill the next month.

Why has John been charged?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Isla enjoys playing Candy Cane on her tablet device at night. She has four lives available every night. She struggles to complete level six because she is always short of five candy canes. A pop-up arrives saying five candy canes for just £1.99. Isla clicks to accept the offer. Isla's parents found a charge of £1.99 on her mobile phone bill the next month.

Why has Isla been charged?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Scenarios

Think about the techniques used to encourage the children to spend money.



Scenario cards

John and his brother love watching a celebrity reality show every Saturday night. They have downloaded the free app and have cast their vote. Just before the show ends, John decides he wants to vote for somebody else so he tries to place another vote but has already used his free token for the evening. He decides to vote anyway. John's parents found a charge of 99p on his mobile phone bill the next month.

Why has John been charged?

he was charged because he voted two times and spent 99p charge.

Scenario cards

John and his brother love watching a celebrity reality show every Saturday night. They have downloaded the free app and have cast their vote. Just before the show ends, John decides he wants to vote for somebody else so he tries to place another vote but has already used his free token for the evening. He decides to vote anyway. John's parents found a charge of 99p on his mobile phone bill the next month.

Why has John been charged?

Because he had already used his free vote but he voted anyway.

Isla enjoys playing Candy Cane on her tablet device at night. She has four lives available every night. She struggles to complete level six because she is always short of five candy canes. A pop-up arrives saying five candy canes for just £1.99. Isla clicks to accept the offer. Isla's parents found a charge of £1.99 on her mobile phone bill the next month.

Why has Isla been charged?

because she pressed a button that was a 1.99 for another life.

Isla enjoys playing Candy Cane on her tablet device at night. She has four lives available every night. She struggles to complete level six because she is always short of five candy canes. A pop-up arrives saying five candy canes for just £1.99. Isla clicks to accept the offer. Isla's parents found a charge of £1.99 on her mobile phone bill the next month.

Why has Isla been charged?

because she <sup>used</sup> a fake link and the bill was 1.99.

Scenario cards

John and his brother love watching a celebrity reality show every Saturday night. They have downloaded the free app and have cast their vote. Just before the show ends, John decides he wants to vote for somebody else so he tries to place another vote but has already used his free token for the evening. He decides to vote anyway. John's parents found a charge of 99p on his mobile phone bill the next month.

Why has John been charged?

because he already used his free token.

Isla enjoys playing Candy Cane on her tablet device at night. She has four lives available every night. She struggles to complete level six because she is always short of five candy canes. A pop-up arrives saying five candy canes for just £1.99. Isla clicks to accept the offer. Isla's parents found a charge of £1.99 on her mobile phone bill the next month.

Why has Isla been charged?

because because she didn't have enough money.

Scenario cards

John and his brother love watching a celebrity reality show every Saturday night. They have downloaded the free app and have cast their vote. Just before the show ends, John decides he wants to vote for somebody else so he tries to place another vote but has already used his free token for the evening. He decides to vote anyway. John's parents found a charge of 99p on his mobile phone bill the next month.

Why has John been charged?

because he wanted to change his vote.

Isla enjoys playing Candy Cane on her tablet device at night. She has four lives available every night. She struggles to complete level six because she is always short of five candy canes. A pop-up arrives saying five candy canes for just £1.99. Isla clicks to accept the offer. Isla's parents found a charge of £1.99 on her mobile phone bill the next month.

Why has Isla been charged?

because she + Isla pressed 1.99 for five candy canes but she didn't know she would get charged.

Key Questions:

Why might companies pay to have their product advertised?

Does this mean their product is any better than their competitors?

Have you ever been tempted to buy a product you have seen a video or picture of online?

Why do you think companies pay influencers to talk about their product?

## 05.01.2025 Lesson 3 Fact, opinion or belief? MC/JR

### NC Objectives:

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Key Vocabulary: belief, fact, opinion, reliability

LO: To explain why lots of people sharing the same opinions or beliefs online do not make those opinions or beliefs true.

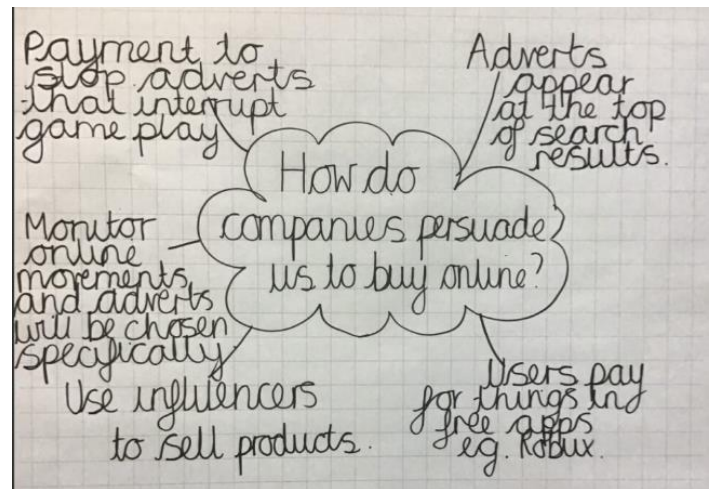
### Recap and recall



### Gimme five!

Think of five things you learnt about how companies persuade people to buy things online.

Tell them to your partner and then give them a high five!



### Attention Grabber - Should we believe everything we see or read?

Just because something has been seen or read online, does not mean it is true.

When online, we need to think about the reliability of what we have read or seen and decide if it can be classed as a fact, opinion or belief.

### Main event



### Fact

A fact is something you can prove to be true.

- There are sixty seconds in one minute.



### Opinion

An opinion is somebody's own personal view on a particular topic.

- Computing is the best subject!



# Belief

A belief is something you or someone else thinks is true but you can not prove.

- Aliens are real.



# Activity

Sort through the statements to decide if they are facts, opinions or beliefs.



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## Fact, opinion or belief?

Sam and Rohim have been browsing online most of the morning. They have come across a number of different statements. Can you sort them into fact, opinion or belief?

Statement	Fact	Opinion	Belief
Rainy days are not fun.		✓	
A keyboard is an input device.	✓		
This was the best trip out ever.		✓	
Jesus is the son of God			✓
We should protect animals by not harming or eating them.		✓	
The meal costs £4.99	✓		

Now, see if you can create your own facts and opinions on these images.

Statement	Fact	Opinion
	Ice cream melts in sundae	it's awful when it is a sundae
	Some girls wear	if might wear it's wet

James has read online that the new pizza shop in town is "the best ever". He has seen six different posts now stating this. Does this mean that this is true because he has read it online from different people?

It's a opinion for some or it's a opinion by you order it online it could be the opits.

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## Activity: Fact, opinion or belief?

Sam and Rohim have been browsing online most of the morning. They have come across a number of different statements. Can you sort them into fact, opinion or belief?

Statement	Fact	Opinion	Belief
Rainy days are not fun.		✓	
A keyboard is an input device.	✓		
This was the best trip out ever.		✓	
We have longer days in the summer.	✓		
Jesus is the son of God			✓
This product will change your life.		✓	
We should protect animals by not harming or eating them.	✓	✓	✓
The meal costs £4.99	✓		

Now, see if you can create your own facts and opinions on these images.

Statement	Fact	Opinion
	Ice cream is melting	Ice cream is the best flavour of ice cream
	It is hot at the beach	I do not like crabs or going on the beach because of sharks



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We have longer days in the summer.	✓		
Jesus is the son of God			✓
This product will change your life.		✓	
We should protect animals by not harming or eating them.	✓	✓	✓
The meal costs £4.99	✓		

Now, see if you can create your own facts and opinions on these images.

Statement	Fact	Opinion
	Ice cream is cold	Ice cream is the best
	The beach has water	The beach has sand



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Statement	Fact	Opinion	Belief
Rainy days are not fun.		✓	
A keyboard is an input device.	✓		
This was the best trip out ever.		✓	✓
We have longer days in the summer.	✓		
Jesus is the son of God			✓
This product will change your life.		✓	
We should protect animals by not harming or eating them.		✓	✓
The meal costs £4.99	✓		

Now, see if you can create your own facts and opinions on these images.

Statement	Fact	Opinion
	This ice cream is 99p	chocolate is the best flavour for ice cream.
	The water is at the beach.	They love going to the beach it's so fun.



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## Activity: Fact, opinion or belief?

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A keyboard is an input device.	✓		
This was the best trip out ever.		✓	✓
We have longer days in the summer.	✓		
Jesus is the son of God			✓
This product will change your life.		✓	
We should protect animals by not harming or eating them.		✓	✓
The meal costs £4.99	✓		

Now, see if you can create your own facts and opinions on these images.

Statement	Fact	Opinion
	It melts.	It tastes really nice.
	There is sand.	It is the best place to eat.



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## Activity: Fact, opinion or belief?

Sam and Rohim have been browsing online most of the morning. They have come across a number of different statements. Can you sort them into fact, opinion or belief?

Statement	Fact	Opinion	Belief
Rainy days are not fun.		✓	
A keyboard is an input device.	✓		
This was the best trip out ever.		✓	
We have longer days in the summer.	✓		
Jesus is the son of God			✓
This product will change your life.		✓	
We should protect animals by not harming or eating them.		✓	✓
The meal costs £4.99	✓		

Now, see if you can create your own facts and opinions on these images.

Statement	Fact	Opinion
	Ice cream is not easy for anyone	Ice cream is very tasty
	The sea is funny	The sea is scary

## Wrapping up

**Is it sometimes hard to distinguish between a fact and an opinion?**

Yes, sometimes people make opinions sound like facts. RH

Some opinions sound like facts. LR

It depends on who is sharing the facts and opinions. IM

You can begin to doubt your own knowledge. L-RP

People may say it is a fact but not true for everyone. GR

Opinions can sound like facts because people confidently say them. MW

**How could you check the reliability of a statement?**

You could check on other websites that might be more reliable. JL

You could do some research about the website and look at reviews. RH

Ask an adult or a teacher. L-RP

Look for the information in a book. AF

Using your common sense. GR

## 24.02.2026 Lesson 4 - What is a bot? MC/SUPPLY

NC Objectives:

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Key Vocabulary: advantage, bot, computer, disadvantage, program, risk

LO: To explain that technology can be designed to act like or impersonate living things.

## Recap and recall

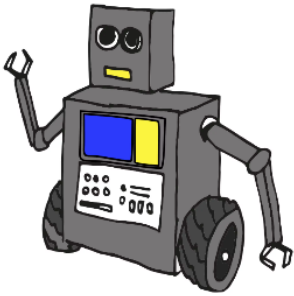
Who can identify if the statement is a fact, opinion or belief?



3, 2, 1

Write down...  
Three facts.  
Two opinions.  
One belief.

## Attention grabber



## What is a bot?

- Is the word bot shortened from any other word?

## What is a bot?

The word bot is shortened from the word robot.

A bot is a computer program which is sometimes referred to as a chatbot.

It is programmed to hold automatic conversations with humans.

- Have you ever interacted with a bot before?

## Bots



Smartphones or TVs with Siri or Google Assistant.

Smart devices such as Amazon Echo Dot.

It can be hard to tell if you are speaking to a bot.

## Main Event

### Why use a bot in our home?

- They can be used to give reminders about things like doctor's appointments.
- They can be used to order shopping online.
- They can manage electrical appliances in the home, like turning the TV on or asking your phone to call your mum.
- You can even ask a bot to teach you a new language.

### Discussion time!

- How are bots useful?
- Why might people use a bot in their homes?
- Why might people use a bot in the workplace?

### Benefits and risks

- What are the advantages of using a bot at home, school or the workplace?
- What are the disadvantages of using a bot at home, school or the workplace?

How this class bot will be used to help:	
How this will benefit our class:	What are the risks:

### Activity

Design your own class bot!

- What will your class bot help you do?
- What could be the potential risks?

# Advantages of using a bot

- Help with homework.
- Answers useful questions
- Do chores.
- Complete work quickly.

# Disadvantages of using a bot

- Replace human jobs so people lose work.
- Listens to everything.
- Might not always follow out instructions correctly.

# Benefits

- Do jobs around the house.
- Help you with answers eg homework.
- The robots can help you all the time.
- Answers quickly

# Disadvantages

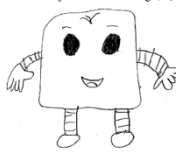
- Might make mistakes.
- Might play adverts.
- Listening all the time.
- People lose their jobs
- Don't understand like a human.

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Designing a class bot

My bot design

bob the bot



What my class bot will be able to do:

say hi to attract the robot and it will climb the walls to you and as you what you need

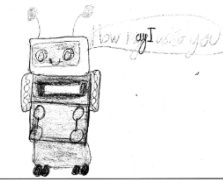
How this will benefit our class:	What are the risks:
by helping us with our learning	he might mishear you and give you the wrong information

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Designing a class bot

Alexa helper

My bot design



What my class bot will be able to do:

It will be able to answer anything in our class like school topics and about the class

How this will benefit our class:	What are the risks:
Monday to Friday 12pm to 4pm	if you get into it the robot will shut down for 2 hours is you touch it will break. 2 hour repair

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Designing a class bot

My bot design



What my class bot will be able to do:


Recognize the apple, robot will pick up basket change any pig times

How this will benefit our class:	What are the risks:
It will give us useful information and help times	It gets away from the robot and it can't find it

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Designing a class bot

My bot design



What my class bot will be able to do:

Scan learning for teachers and mark them. Helps people to do work makes sure no one is in the red zone.

How this will benefit our class:	What are the risks:
when it's quiet the bot can hear people in what short hand id.	the class could be way too loud and fall over

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Designing a class bot

My bot design



What my class bot will be able to do:


Helping with problems, helps with spelling, check all responding.

How this will benefit our class:	What are the risks:
I will help with everything and play with you.	It will be a distraction can't hear you.

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Designing a class bot

My bot design



What my class bot will be able to do:

It can help to help people to responding, replacing answers, and it can remind naughty child/CPN

How this will benefit our class:	What are the risks:
It can do any thing you want it to do	It could give the wrong answer and it could malfunction

## Wrapping up

How will your bot be hosted?

How will it benefit the class?

What could be the possible risks of having the bot in the classroom?