Lesson 2: Picoh Poet

I can use a list in a program

What is a list? What are lists used for?

BBQ SHOPPING LIST

SAUCE/GARNISH
- Burger Relish
- Ketchup
- BBQ Sauce
- Mayonaise
- Salad Dressing

SIDES
- Potato Salad
- Coleslaw
- Chips
- Salad
- Corn On The Cob

EXTRAS
- Burger Buns
- Hot Dog Buns
- Wraps
- Napkins
- Skewers

VEGETARIAN
- Veggie Burgers
- Veggie Sausages
- BBQ Vegetables
- Baked Potato
- Halloumi

MEATS
- Burgers
- Sausages
- Chicken Thighs
- Salmon Fillet
- Chicken Drumsticks

DRINKS
- Juice
- Beer
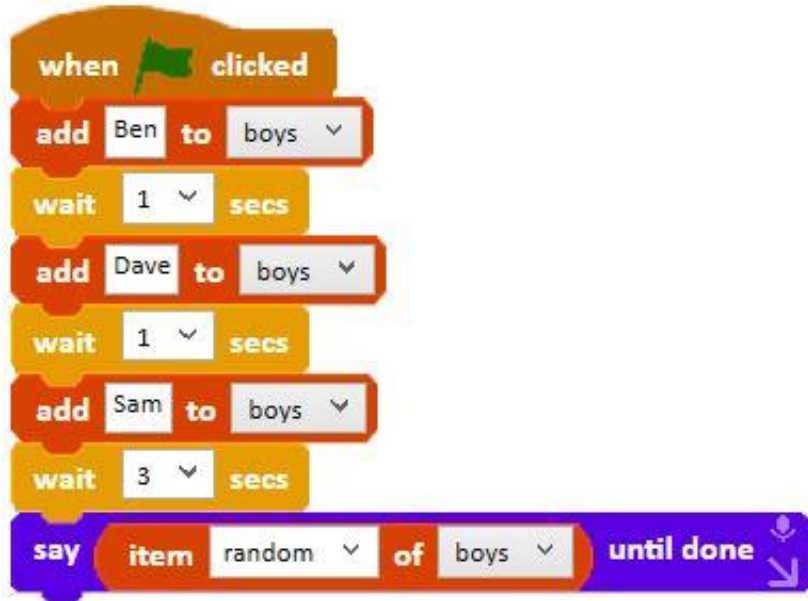- Pimms
- Soft Drinks
- Water

picoh

Demonstration

Together we will learn to make a list and add items to the list.

File, Save As – listusingcode

Demonstration: adding items to a list

Demonstration: add items to a list using Ask

Together we will learn to make a list and add items to a list using the ask instruction

File, Save As – listusingask

Demonstration –add an item to a list using Ask

Activity 1

Can you write a program to make Picoh ask the names of four children in the class and then pick one at random to win a special prize? Can you make Picoh announce the winner too?

File, Save As - listprize

Example: Activity 1

Together we will learn another way to enter items in a list.

File, Save As – typingdirectlyintoalist

Demonstration

boys: John|Peter|Paul|Josh|Michael|

when 🚩 clicked

say item random of boys until done

Demonstration

Together we will write a program to make a two word poem generator

File, Save As – currentdate

Demonstration: two word poem generator

Animal: Antelope|Baboon|Chameleon|Dragonfly|Elephant|

Adjective: Magnificent|Cheeky|Graceful|Noisey|Cute|

Activity 2

Can you write a program to make Picoh generate a poem using three or more lists?
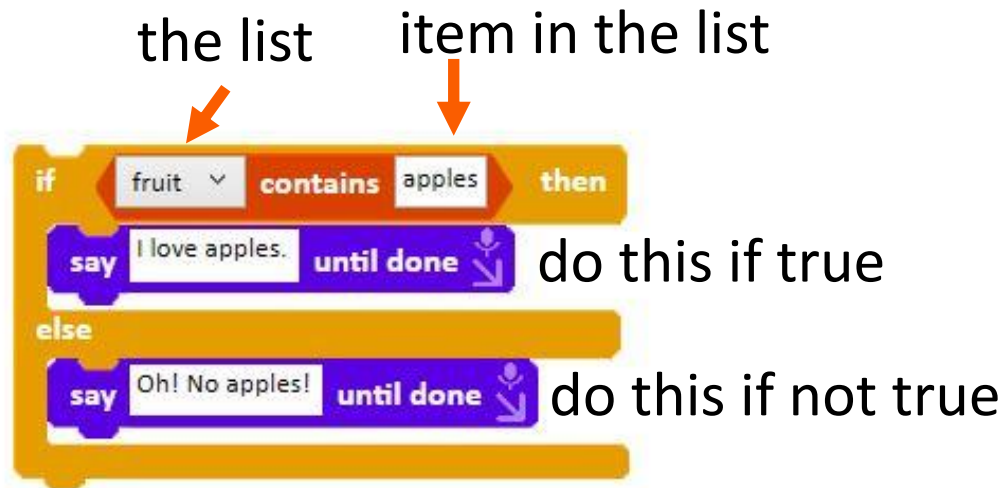
File, Save As - listpoetrygenerator

Example: three-list poetry generator

Adverbs: Gracefully|Crazily|Happily|Excitedly|

Verbs: Jumps|Speaks|Walks|Dances|

Who: Queen|Teacher|Wizard|Farmer|

```
when [green flag] clicked
repeat 6
    say join The (item random of Who) until done
    say (item random of Verbs) until done
    say (item random of Adverbs) until done
    wait 1 secs
```

Demonstration – *If* to check contents of a list

the list

item in the list

do this if true

do this if not true

Activity 3

Can you write a program to make Picoh ask for your 3 favourite fruits and then read this list out loud. Can you add an if conditional to make Picoh respond if the list contains a particular type of fruit it likes?

Activity 3 Example

Extension

Picoh also has two favourite fruits. Can you alter your code so that Picoh responds only when both fruit it likes appear as items on the list.

Extension Example