

# Lesson 3: Over and over

I can refine a program by using the repeat instruction



Which command can you use to make PicoH perform a movement over and over again?



## Activity 1

Can you write some code to make my head move up and down 10 times?

*File, Save As –  
headnodwithrepeat*



Head nod - using repeat

```
when clicked
repeat 10
  set HeadNod to 0
  wait 1 secs
  set HeadNod to 10
  wait 1 secs
set HeadNod to 5
```



## Activity 2

Can you program me to shake my head twice then look straight ahead?

*File, Save As –  
crossingtheroad*



Double head shake example

```
when clicked
repeat 2
  set EyeTurn both to 0
  wait 1 secs
  set EyeTurn both to 10
  wait 1 secs
set EyeTurn both to 5
```



### Activity 3

Today I am going to my keep fit class.

Can you write some code for me to perform a sequence of movements one after the other?

First nod twice, then shake twice finally blink twice.

*File, Save As – keepfit*



## Activity 3: Example

```
when clicked
repeat 2
  set HeadNod to 0
  wait 1 secs
  set HeadNod to 10
  wait 1 secs
set HeadNod to 5
wait 1 secs
repeat 2
  set HeadTurn to 0
  wait 1 secs
  set HeadTurn to 10
set HeadTurn to 5
wait 1 secs
repeat 2
  set EyeTilt both to 0
  wait 1 secs
  set EyeTilt both to 10
  wait 1 secs
set EyeTilt both to 5
```





## Extension

Can you write your own keep fit sequence for PicoH with at least 3 moves and using repeat.

*File, Save As – mykeepfit*

