

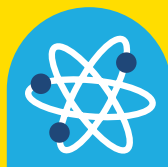
Suitable for
3-7 years

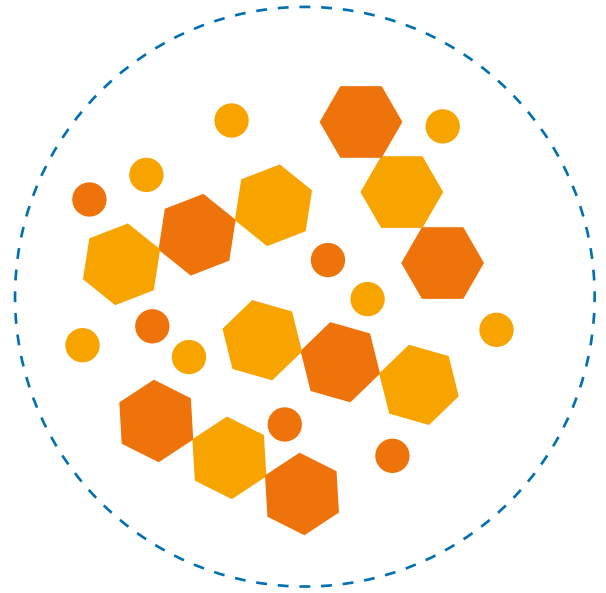
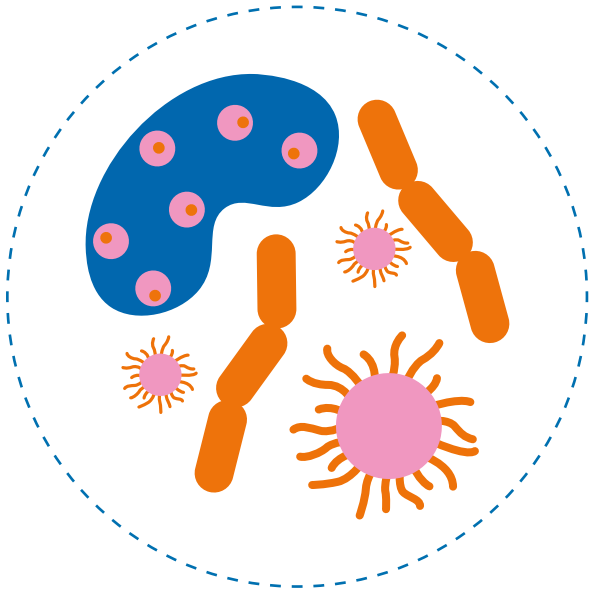
- Solo
- Pairs
- Groups

Irene's activity

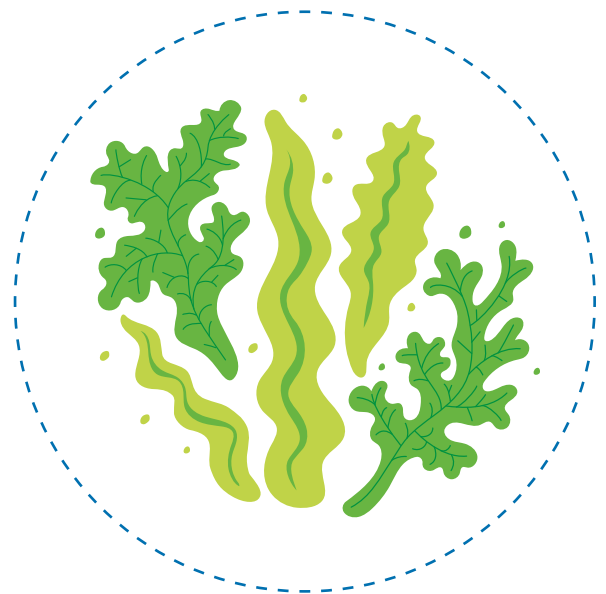
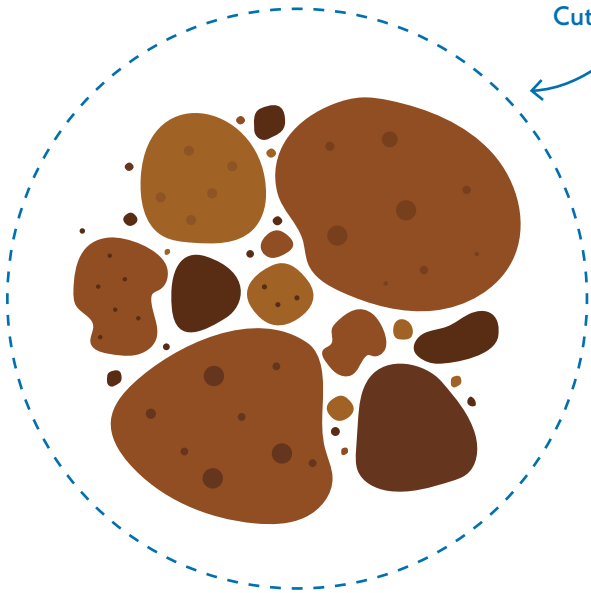
Filter boards

Resource Pack

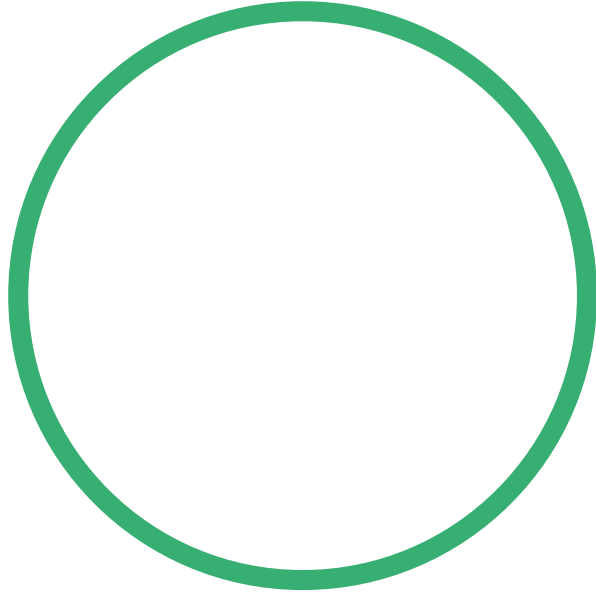





Cut the circles out



Leaves and branches



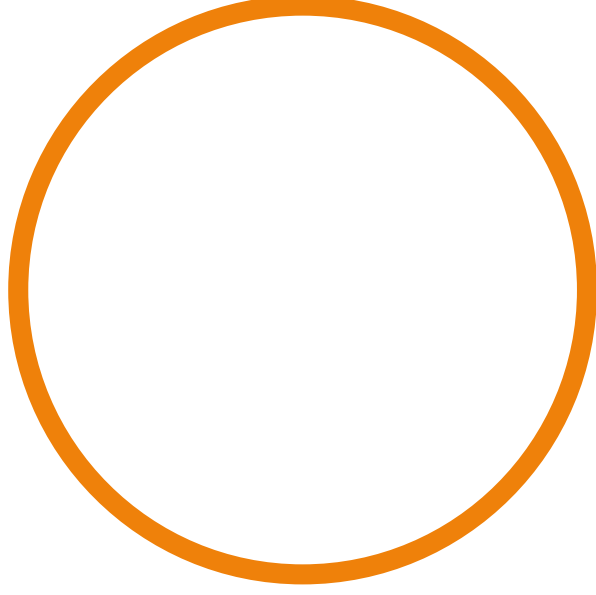
Why do we remove leaves and branches?

Make us ill

How do we remove leaves and branches?

Screen/filter at intake

Soil and dirt



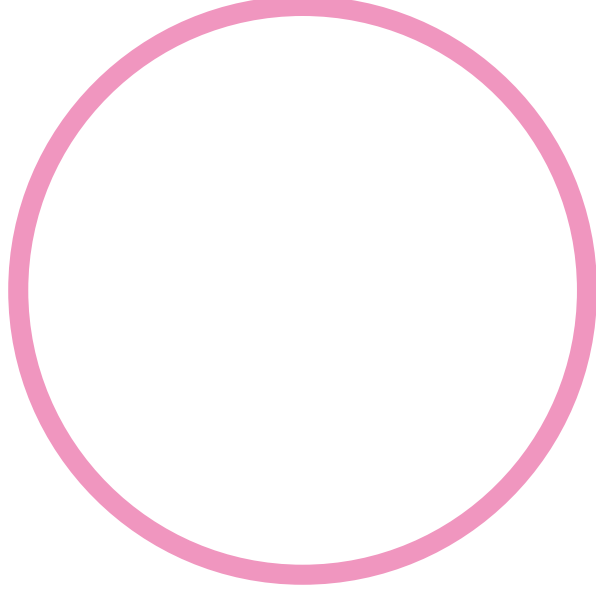
Why do we remove soil and dirt?

Can carry germs which make us ill

How do we remove soil and dirt?

Letting them sink to the bottom (sedimentation). If the particles (bits of dirt) are very small they need to stick them together first, see Rose and Drop and the special shampoo

Pathogens/germs



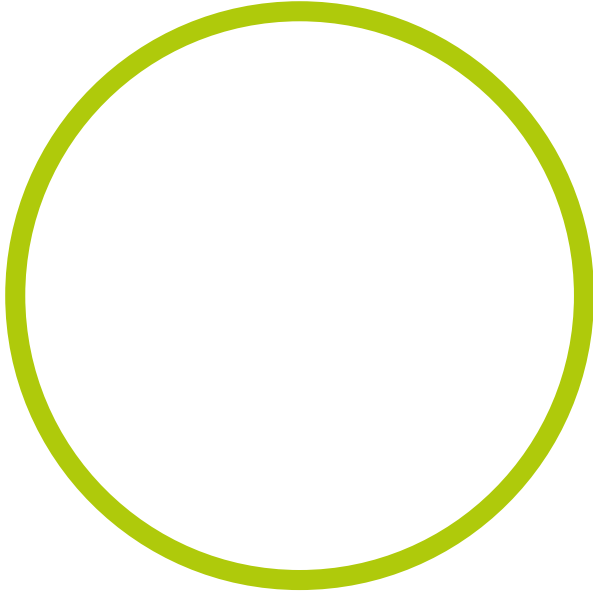
Why do we remove pathogens/germs?

Make us ill

How do we remove pathogens/germs?

Filter. Disinfect to kill the germs e.g. with chlorine

Algae



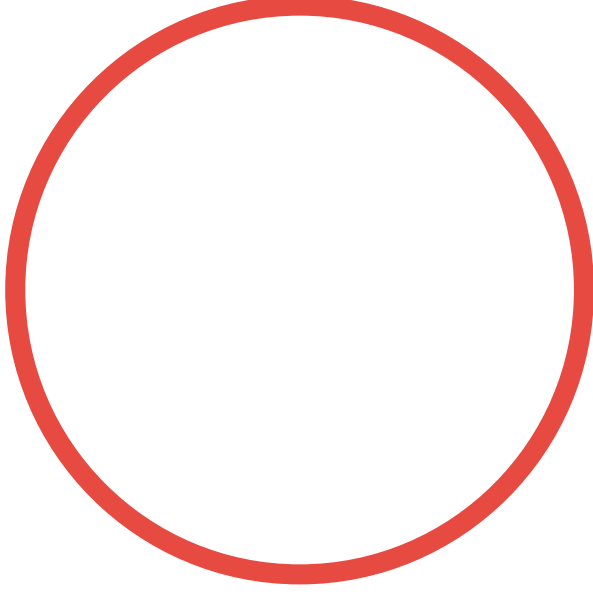
Why do we remove algae?

Make us ill

How do we remove algae?

Protect reservoir – e.g. reduce algae
food inputs to reduce growth

Pesticides



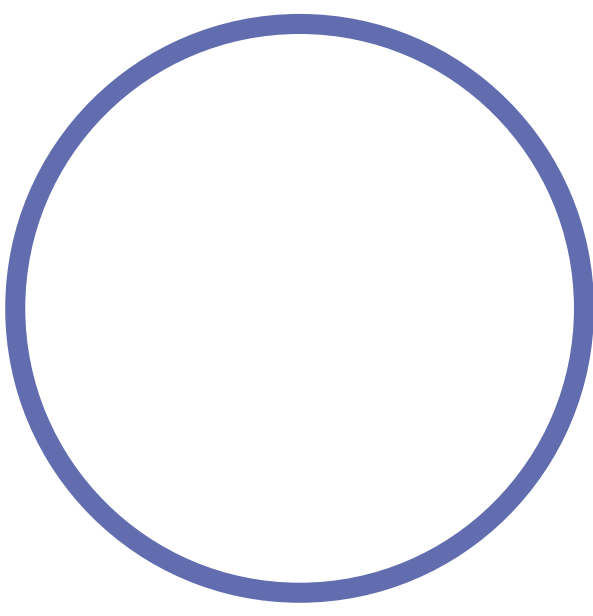
Why do we remove pesticides?

Make us ill

How do we remove pesticides?

Filter through coal or charcoal

Iron and Manganese



Why do we remove iron and manganese?

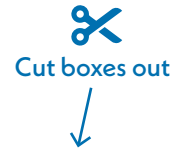
Makes water look orange.
Gives metallic taste

How do we remove iron and manganese?

Capture with phosphate

Cards for advanced version of the game

First of all play the fishing game with the above boards where the answers are given. Once the children understand why each contaminant is a problem and which methods of treatment are used for different contaminants use the below resources for an advanced version of the game. Here the children need to select why and how cards to match the fished out contaminant.



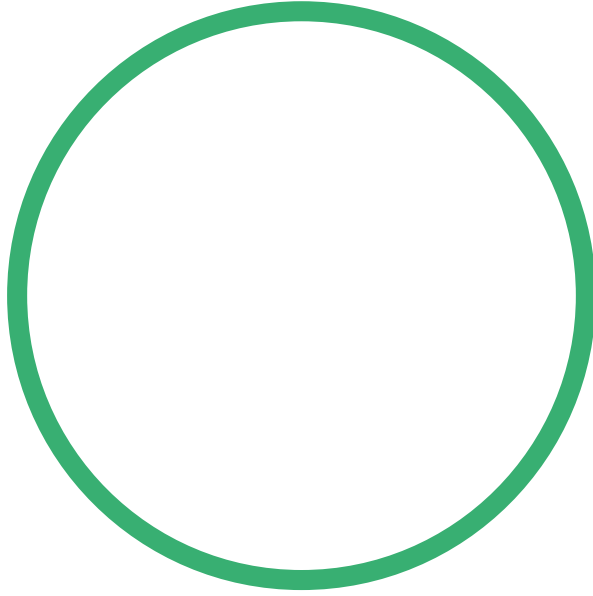
Why we remove them to make our water safe to drink

Make us ill	Can carry germs which make us ill
Make us ill	Make us ill
Make us ill	Makes water look orange. Gives metallic taste

How we remove them to make our water safe to drink

Screen/filter at intake	Letting them sink to the bottom (sedimentation). If the particles (bits of dirt) are very small they need to stick them together first, see Rose and Drop and the special shampoo
Filter. Disinfect to kill the germs e.g. with chlorine	Protect reservoir – e.g. reduce algae food inputs to reduce growth
Filter through coal or charcoal	Capture with phosphate

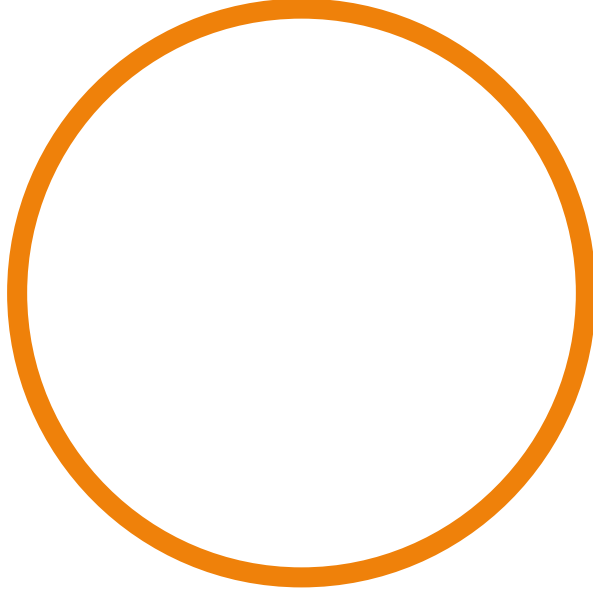
Leaves and branches



Why do we remove leaves and branches?

How do we remove leaves and branches?

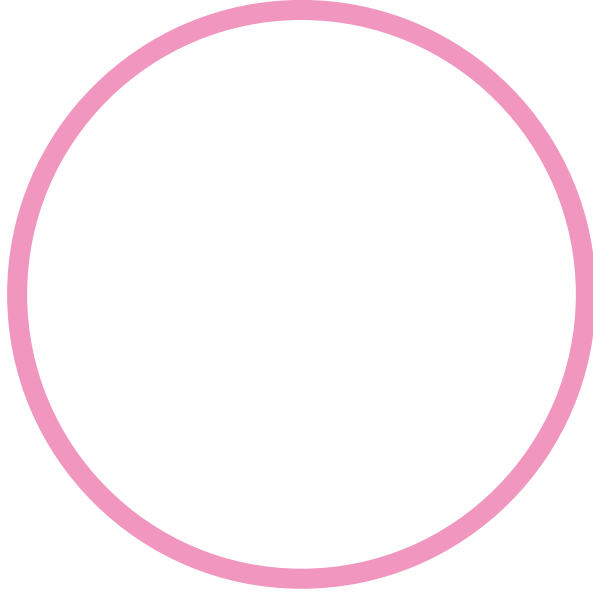
Soil and dirt



Why do we remove soil and dirt?

How do we remove soil and dirt?

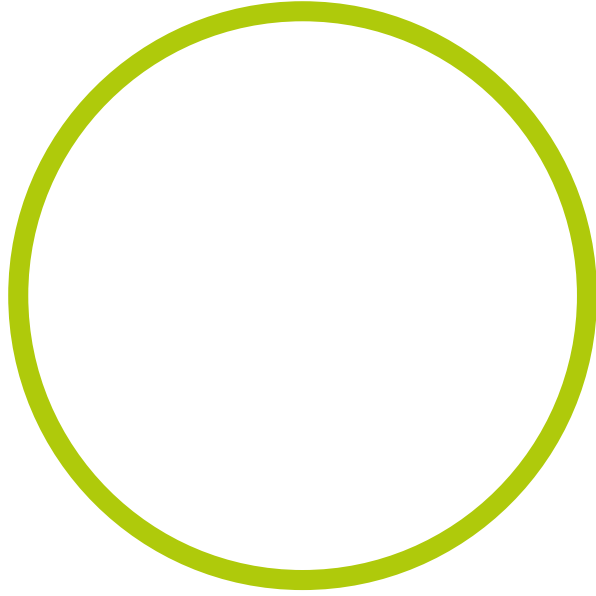
Pathogens/germs



Why do we remove pathogens/germs?

How do we remove pathogens/germs?

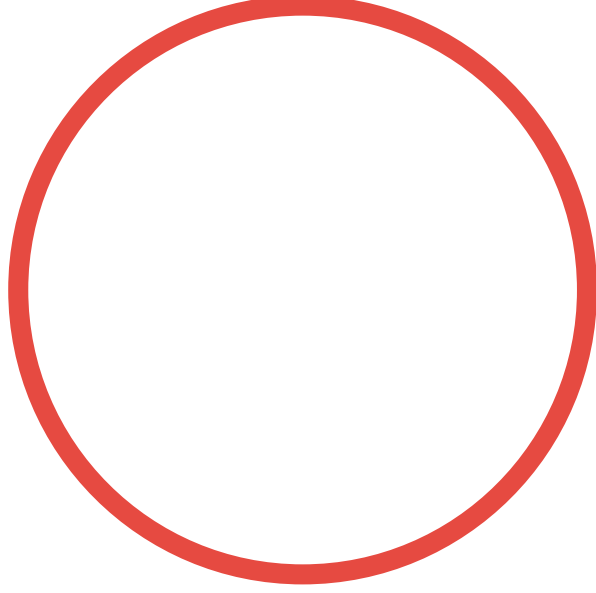
Algae



Why do we remove algae?

How do we remove algae?

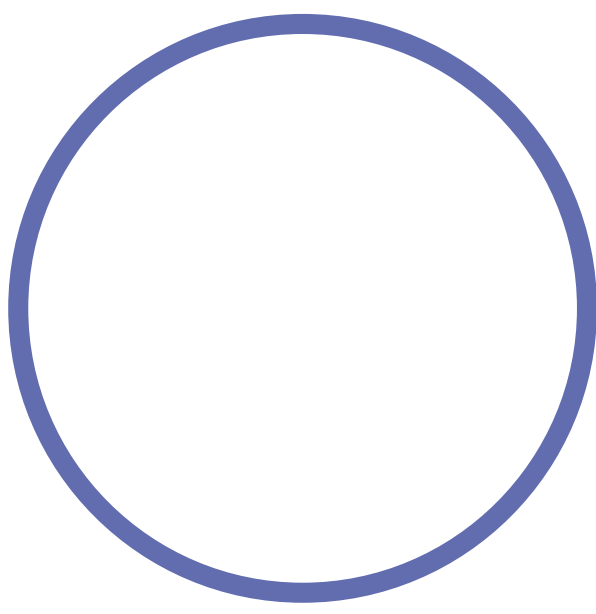
Pesticides



Why do we remove pesticides?

How do we remove pesticides?

Iron and Manganese



Why do we remove iron and manganese?

How do we remove iron and manganese?