

## Week 5, Activity 1 - Circles



### Key skills

- To illustrate and name parts of circles.

### Have ready

- Stick.
- String.
- Stones.

### Activity

- Make a circle outdoors.
- Tie a length of string to a stick. Place the stick in the ground and hold the string so it is taut. Place stones on the ground as you slowly walk round the stick, keeping the string taut at all times. You should end up where you started with a stone circle.
- Check the diameter is twice the radius!

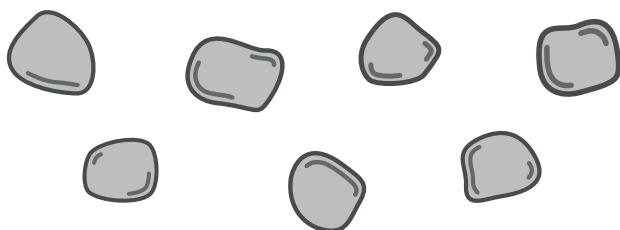
## Week 5, Activity 2 - Nim

### Key skills

- To problem solve.

### Have ready

- Seven objects like stones, sticks, counters.
- It is a game for two players.



### Activity

- To play the ancient game of Nim, place the 7 objects in a pile and decide who will go first. In the next game, the other player will go first.
- Each player takes turns to take away either one or two objects.
- The player who takes the last object wins.
- Keep playing until you work out a winning strategy.
- Think about; Does it matter who has the first turn? What happens when you start the game with more objects?