KOGNITY

What makes an IGCSE Co-ordinated Sciences Kognity Learner?

Kognity supports IGCSE students in growing lifelong academic and social-emotional skills that will help them succeed in further study and career goals. Use the tree below to explore how Kognity nurtures IGCSE Co-ordinated Sciences learners in developing these skills.

IGCSE Learner Attributes with Kognity

1 General physics

	Subtopic		Sections	Strength ⓘ	
○	1.1	Length and time	0 / 4		
○	1.2	Motion	0 / 7		
○	1.3	Mass and weight	0 / 4		
◑	1.4	Density	2 / 4		
○	1.5	Forces	0 / 7		
○	1.6	Momentum	0 / 5		
○	1.7	Energy, work and power	0 / 7		
○	1.8	Pressure	0 / 5		

Take strength test   45 exam-style questions available
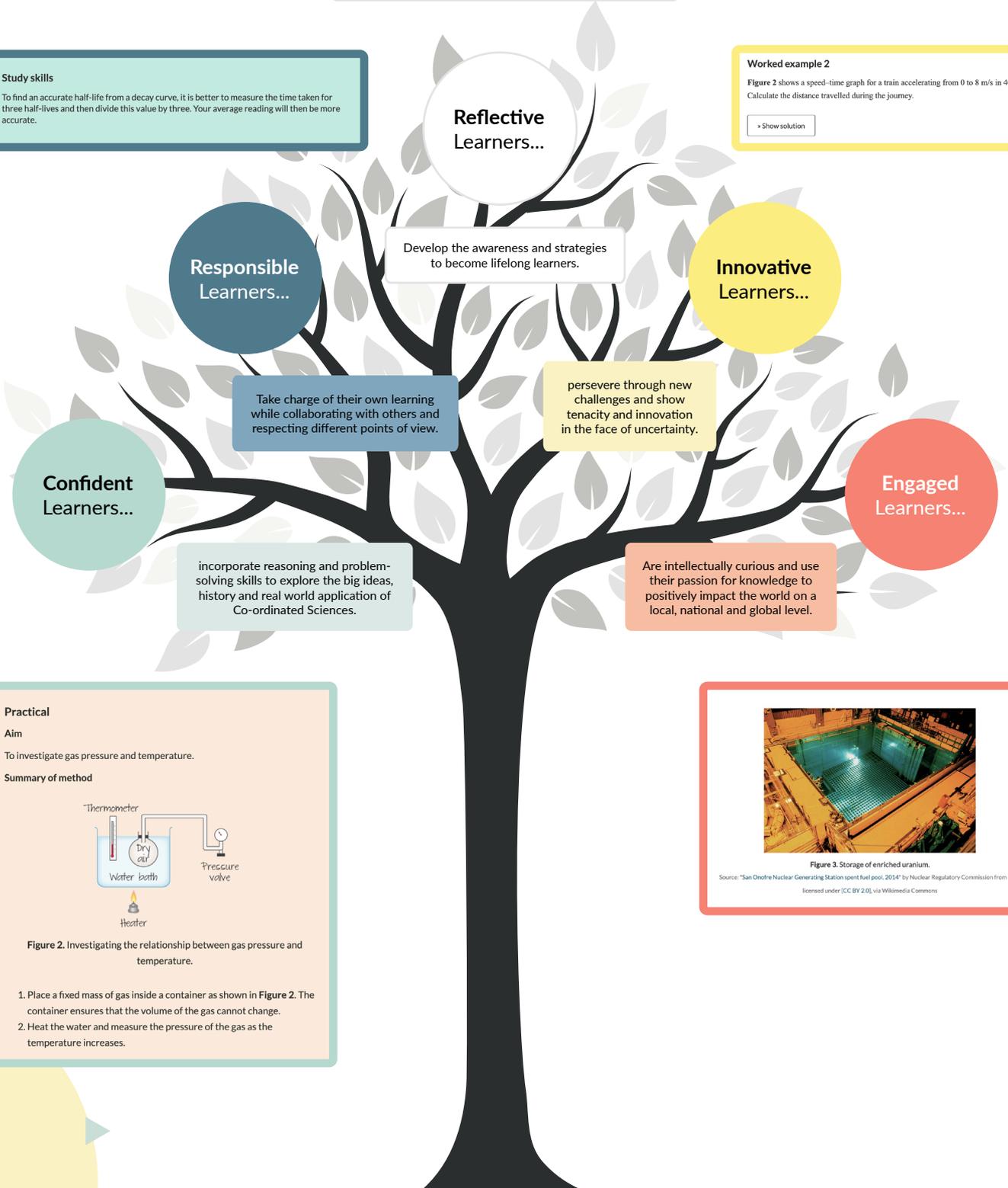
📌 Study skills

To find an accurate half-life from a decay curve, it is better to measure the time taken for three half-lives and then divide this value by three. Your average reading will then be more accurate.

Worked example 2

Figure 2 shows a speed–time graph for a train accelerating from 0 to 8 m/s in 40 seconds. Calculate the distance travelled during the journey.

» Show solution

Reflective Learners...

Develop the awareness and strategies to become lifelong learners.

Responsible Learners...

Take charge of their own learning while collaborating with others and respecting different points of view.

Innovative Learners...

persevere through new challenges and show tenacity and innovation in the face of uncertainty.

Confident Learners...

incorporate reasoning and problem-solving skills to explore the big ideas, history and real world application of Co-ordinated Sciences.

Engaged Learners...

Are intellectually curious and use their passion for knowledge to positively impact the world on a local, national and global level.

🧪 Practical

Aim

To investigate gas pressure and temperature.

Summary of method

Figure 2. Investigating the relationship between gas pressure and temperature.

1. Place a fixed mass of gas inside a container as shown in **Figure 2**. The container ensures that the volume of the gas cannot change.
2. Heat the water and measure the pressure of the gas as the temperature increases.

Figure 3. Storage of enriched uranium.
Source: "San Onofre Nuclear Generating Station spent fuel pool, 2014" by Nuclear Regulatory Commission from US is licensed under [CC BY 2.0], via Wikimedia Commons