Meta-skills are innate, timeless, higher-order skills that create adaptive learners and promote success in whatever context the future brings. From birth, children use their meta-skills as they test and explore the world around them, and it is these meta-skills that act as a key to unlock the development of other transferable and technical skills. Therefore, it is important that as children and young people progress through their education, practitioners make meta-skills explicitly visible and create opportunities for learners to recognise, understand and explore their meta-skills development.

The Skills Development Scotland meta-skills progression framework has been developed in collaboration with partners and practitioners from across Scotland and aims to help with identifying and understanding what meta-skills look like in the classroom. The framework builds on the ‘Skills 4.0 – A Skills Model to Drive Scotland’s Future’ paper and illustrates examples of meta-skills across Curriculum for Excellence levels, from early years through to senior phase.

Points to consider when using the meta-skills progression framework:

- the framework is not mandatory and is provided to support practitioners to reflect and develop their teaching practice in developing meta-skills in the classroom
- the framework has not been developed for use as a tool by learners – although this is at the discretion of practitioners as they feel appropriate, in their school
- the examples given are not exhaustive and are provided as a suggested starting point to support understanding
- practitioners should explore the examples in the framework and consider how these relate to learner’s experiences in their own context or subject.
### Focusing

**Focusing is the ability to be able to manage cognitive load by filtering and sorting information in order to maintain a sense of focus in an age of information overload and constant change.**

Focusing can include the following:

- **Sorting**: The ability to sort information into categories and to understand the relationship between information
- **Attention**: The ability to focus on the present and deflect/avoid distractions
- **Filtering**: The ability to filter out non-essential information and focus on the essential problem at hand

<table>
<thead>
<tr>
<th>Learners show focusing at Early Level by:</th>
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<th>Learners show focusing in Senior Phase by:</th>
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<tbody>
<tr>
<td>• displaying continuous, interest and involvement in a task over a period of time</td>
<td>• concentrating on the activity at hand and avoiding distractions to complete it</td>
<td>• asking questions to clarify tasks, remaining focused to plan and set goals with some support to complete an activity/task</td>
<td>• asking questions to clarify tasks and communicating the information they have researched</td>
<td>• asking questions to understand the task, and helping others with their understanding or involvement to keep the activity on track</td>
</tr>
<tr>
<td>• identifying objects and events as the same or different, and sorting objects into groups</td>
<td>• being systematic and working through the stages of a task and explaining the reason for their choices</td>
<td>• organising their thinking and focusing on an activity to avoid distractions</td>
<td>• organising their thinking and demonstrating structure to present ideas in a logical order, avoiding and deflecting distractions</td>
<td>• focusing on the task at hand and confidently and sensitively challenging distracting behaviour in others if necessary</td>
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<tr>
<td>• accepting changes in their environment in order to be able to focus on a task.</td>
<td>• understanding any changes in their environment required to support their focus on a task.</td>
<td>• drawing from various sources of information, sorting through the information to focus on what is essential</td>
<td>• identifying essential information, drawing conclusions, and summarising their findings</td>
<td>• confidently bringing together essential information from various sources, summing up ideas, issues, findings, or conclusions and presenting them appropriately</td>
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<td>• suggesting changes to their environment to support their ability to focus on an activity.</td>
<td>• selecting the most appropriate environment that allows focus to be given to the task in hand.</td>
<td>• independently selecting the most appropriate environment to focus on the task in hand.</td>
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</table>
**Integrity**

**Working with integrity ensures that we always consider what we believe to be ethical and fair. It is acting in an honest and consistent manner based on a strong sense of self and personal values.**

Using integrity can include the following:

- **Self-awareness:** The ability to understand and manage emotions, strengths, belief systems and limitations, and the effects of these on behaviours and the way they impact on others
- **Ethics:** Being aware of and acting on personal values and principles
- **Self-control:** The ability to exercise control over your own impulses, emotions and desires

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<tr>
<th>Learners show integrity at Early Level by:</th>
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<th>Learners show integrity in Senior Phase by:</th>
</tr>
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<tbody>
<tr>
<td>showing kindness to others and being sensitive to others’ feelings</td>
<td>understanding and following rules in play and games</td>
<td>being respectful in their interactions with others and being willing to understand other people’s ideas or values</td>
<td>discussing the role rules play in a democratic society and being aware of global and cultural differences</td>
<td>understanding the role rules play in a democratic society, and are actively seeking to widen their understanding of global and culture differences</td>
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<tr>
<td>being aware of how their actions can affect others</td>
<td>understanding that other people may have different values and ideas to their own and learning to compromise</td>
<td>devising and following rules and giving an opinion as to the need for them</td>
<td>being respectful during any interactions with others in a wide range of contexts, including those who may have different values and principles to their own</td>
<td>being sensitive to other people's feelings or abilities, and making an appropriate judgement as to when they need to change their approach or work in a different way to accommodate them</td>
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<tr>
<td>recognising that we have similarities and differences but are all unique.</td>
<td>recognising and respecting other people's feelings and emotions, and what kind of actions and events can impact on these in positive or negative way</td>
<td>being aware that other people's feelings and emotions may impact on the way they speak or behave and can respond sensitively</td>
<td>showing sensitivity to other people's feelings or abilities and accepting changes to an approach when working in a group if appropriate</td>
<td>not only demonstrating personal values in daily life but seeking to widen their understanding of other people's values and principles.</td>
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<tr>
<td>adapting their language and behaviour to suit different situations.</td>
<td>adapting their language and behaviour to suit different situations.</td>
<td>participating in discussions about values and being able to demonstrate these through daily life.</td>
<td>demonstrating personal values in their school and daily life and being able to express an opinion as to why these are important.</td>
<td>demonstrating personal values in their school and daily life and being able to express an opinion as to why these are important.</td>
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</table>
Adapting

Adapting is the ability and interest to continue to enlarge knowledge, understanding and skills in order to remain adaptive and resilient as circumstances change.

Adapting can include the following:
- **Openness**: Being open to new ideas and approaches – having a growth mindset
- **Critical reflection**: The ability to critically reflect on new knowledge and experiences in order to gain a deeper understanding, embed and extend learning
- **Adaptability**: Flexibility when handling the unexpected, adapting to circumstances as they arise
- **Self-learning**: The ability to self educate without the guidance of others
- **Resilience**: The ability to respond positively and constructively to constantly evolving challenges and complexity

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<th>Learners show adapting in Senior Phase by:</th>
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<tbody>
<tr>
<td>• asking lots of questions and being curious about the world around them</td>
<td>• asking and answering questions to deepen understanding and adapting how to play and learn</td>
<td>• posing interesting questions and constructively challenging ideas to adapt thinking and behaviour</td>
<td>• asking questions, thinking laterally and adapting behaviour to suit a range of contexts</td>
<td>• thinking laterally, applying their understanding in a wide range of contexts, demonstrating initiative and discipline</td>
</tr>
<tr>
<td>• recognising simple problems and talking about solutions with others</td>
<td>• identifying and reflecting on problems and enjoying finding solutions</td>
<td>• identifying problems and researching different ways to understand and find solutions, including using online tools</td>
<td>• enjoying selecting texts or other relevant information regularly to inform thinking</td>
<td>• evaluating their own progress and being able to adapt their approach to overcome unexpected challenges</td>
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<tr>
<td>• being flexible and resilient when faced with novel or unexpected situations</td>
<td>• creatively thinking of solutions to a task and developing this through use of trial and error</td>
<td>• understanding and responding to feedback when working with their peers</td>
<td>• navigating a range of challenges in order to develop a deeper understanding of how to apply skills</td>
<td>• treating others with respect and seeking effective ways to develop co-operation, including resolving conflict</td>
</tr>
<tr>
<td>• learning to work and play with others.</td>
<td>• adapting their behaviour and language to suit different situations and activities</td>
<td>• changing their way of working to fit with different activities and different groups</td>
<td>• giving and responding to feedback from their peers, and being willing and able to reach agreement through compromise</td>
<td>• working with peers to devise ways to evaluate and improve their performance</td>
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<td>• willingly taking turns and sharing co-operatively with others when working on a group task.</td>
<td>• reaching agreements and beginning to manage disagreements.</td>
<td>• critically evaluating and changing their approach when working in a group, taking increasing responsibility if necessary.</td>
<td>• responding positively and influencing others when faced with unexpected change.</td>
</tr>
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### Initiative

Initiative is about thinking for ourselves and is the readiness to get started and act on opportunities built on a foundation of self-belief. Using initiative can include the following:

- **Courage:** The ability to manage and overcome fears in order to take action
- **Independent thinking:** The ability to think for one’s self and trust one’s own judgement
- **Risk-taking:** Doing something that involves danger or risk in order to achieve a goal
- **Decision-making:** The act of making a considered choice after appropriately using intuition and careful thought
- **Self-belief:** A feeling of trust in one’s abilities, qualities and judgement
- **Self-motivation:** The ability to act without influence or encouragement from others
- **Responsibility:** The ability to follow through on commitments, be proactive and take responsibility
- **Enterprising:** Willingness to take risks, show initiative and undertake new ventures

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<th>Learners show initiative in Senior Phase by:</th>
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</table>
| • beginning to plan, and enjoying completing a given task  
  • both following instructions and making their own instructions for others to follow  
  • showing confidence through expressing themselves through actions such as making marks, role play, joining games, singing or dancing with a little prompting if needed for support  
  • being confident when faced with new situations and environments with a little support.  | • breaking tasks into smaller parts in order to plan next steps  
  • persisting with and completing a task  
  • asking questions with confidence about an activity to confirm understanding of the purpose of the task  
  • developing an awareness of what they enjoy and what they find difficult.  | • evaluating and classifying information and selecting the most appropriate methods for a particular task  
  • setting their own goals in order to complete a task within a deadline  
  • evaluating what they have learned and being able to compare their approach with others in the group  
  • understanding directions and being confident in undertaking a task  
  • confidently challenging themselves when faced with the unexpected, but knowing when to ask for help.  | • planning and selecting information independently to create an action plan and complete tasks  
  • determining and setting realistic targets for self-improvement, and deadlines for completion of tasks  
  • evaluating different approaches to thinking and learning, and evaluating their progress  
  • analysing and evaluating tasks and information by listening and being confident when questioning  
  • persevering with tasks in the face of frustrations by using creativity and prior learning to find solutions.  | • showing independent thinking in planning and setting goals, and following through with actions for improvement  
  • reviewing their own learning, linking and using that information to review and propose realistic targets and deadlines  
  • confidently exploring and discussing alternatives when planning a way forward, in and out of school  
  • confidently taking responsibility when exploring new situations and supporting others to complete complex or unexpected tasks.  |
## Communicating

**Communicating** is the ability to openly and honestly share information in a way that creates mutual understanding about thoughts, intentions and ideas between all parties involved.

The ability to communicate can include:

- **Receiving information**: Understanding and mentally processing verbal or written communication
- **Listening**: The ability to actively understand information provided by the speaker, and displaying interest in the topic discussed
- **Giving information**: Giving written or verbal communication in way that can be best understood by those receiving the communication
- **Storytelling**: The ability to tell stories that persuade, motivate and/or inspire as well as bringing the sharing of knowledge to life through examples and illustrations

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<th>Learners show communicating in Senior Phase by:</th>
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</table>
| • enjoying listening to and recalling stories with friends, and using their imagination to tell their own stories  
• expressing themselves through play and storytelling, and talking about their learning  
• talking about memories and experiences  
• learning to use words to suit different purposes  
• listening to and following directions to be part of an activity. | • communicating with increasing confidence in a variety of ways verbally and digitally  
• listening to others, sharing ideas and experiences, and showing curiosity when exploring different points of view  
• listening to and exploring other people’s stories, and asking questions about the world around them  
• adapting their language and behaviour to suit different situations  
• asking appropriate questions about an activity to make sure they understand the purpose of the task. | • communicating confidently in a variety of familiar and unfamiliar situations, in a range of different ways  
• posing interesting questions that do not have straightforward answers  
• using what they see and hear to form and justify opinions, and find out more information  
• sharing, explaining, and justifying their own views, and beginning to use language to influence others  
• asking more focused questions in order to understand a task and to be able to plan activity. | • seeking out questions to explore and problems to solve by experimenting with ideas and questions  
• communicating confidently through different means such as verbal, written and digital resources  
• listening carefully and valuing other opinions and ideas and using these to develop their own thinking  
• listening to other points of view and reaching agreement through compromise  
• analysing and evaluating tasks and information independently by listening and questioning. | • using appropriate and more complex language to question and explore ideas, and explain solutions to problems clearly and concisely  
• valuing other people’s opinions and ideas, and combining these with information from different sources to create new ideas and solutions  
• using effective, more complex language to explain their own views and thoughts  
• confidently asking questions, and exploring and discussing alternatives when planning a way forward in and out of school. |
### Feeling

Feeling is considering the impact on other people by being able to take a range of different thoughts, feelings and perspectives into account.

Examples of demonstrating feeling include:

- **Empathy**: The ability to take the perspective of others into account in order to understand their feelings and motivations
- **Social conscience**: A sense of responsibility and concern for wider society

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<tbody>
<tr>
<td>• showing kindness and being sensitive towards others</td>
<td>• recognising and respecting other people’s feelings and emotions</td>
<td>• showing kindness and respect in interactions with others, including those who may have different ideas or values</td>
<td>• showing kindness and respect in interactions with others in a wide range of contexts and circumstances including those who may have different ideas or values</td>
<td>• showing kindness and respect to other people in all contexts and circumstances</td>
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<tr>
<td>• being aware of how actions can affect others</td>
<td>• showing kindness and having an understanding that their own actions have an impact on the feelings of others</td>
<td>• being aware that other people’s feelings and emotions may impact on the way they speak or behave and being able to respond sensitively</td>
<td>• being sensitive to other people’s feelings or abilities and suggesting changes to an approach in group work if necessary</td>
<td>• seeking information to explore and build on their understanding and opinions of people and the world outside of their immediate environment /influences</td>
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<tr>
<td>• expressing genuine concern and responsibility for others and the wider society.</td>
<td>• being aware of what kind of actions and events can impact on other people’s feelings in a positive or negative way</td>
<td>• growing aware and having an understanding of global issues, and how we can impact positively on sustainable change.</td>
<td>• developing a deeper understanding of global issues and expressing opinions in a logical way.</td>
<td>• comparing different ways of working in order to accommodate other people during group work</td>
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<td>• having a growing awareness of global issues and developing interests in how to help these issues at a local level.</td>
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<td></td>
<td>• seeking information from a variety of different sources to compare and build on knowledge and understanding of complex global issues.</td>
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Collaborating

Collaborating is working with others. It is about working in coordination with others to convey information or tackle problems.

The ability to collaborate includes:

- **Relationship building**: The ability to identify and initiate connections and to develop and maintain them in a way that is of mutual benefit to both one’s self and others
- **Teamworking and collaboration**: Working with others towards shared goals. Creating group synergy in pursuing collective goals
- **Social perceptiveness**: Being aware of others’ reactions and understanding why they react as they do
- **Cultural competence**: Sensitivity to and awareness of different cultural settings

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<th>Learners show collaborating in Senior Phase by:</th>
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<tbody>
<tr>
<td>• engaging in creative play and working well with friends and less familiar people</td>
<td>• becoming more adept at taking turns and working within a group to complete a task</td>
<td>• working within a group taking on different roles and tasks</td>
<td>• being willing to take the lead in demonstrating learning to others</td>
<td>• being able to consider an individual’s qualities and skills when assigning roles and responsibilities within a team</td>
</tr>
<tr>
<td>• listening to others in a group</td>
<td>• listening to and valuing other’s opinions and learning from shared modelled behaviour</td>
<td>• learning to understand, respond to and build on feedback from others</td>
<td>• giving feedback in addition to responding to feedback from peers and adults</td>
<td>• responding constructively and respectively to others</td>
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<td>• being able to join in with others in a one-to-one situation or part of a group</td>
<td>• developing habits of collaborative learning</td>
<td>• being happy to work in a group and willing to help others with their learning</td>
<td>• taking increasing responsibility for work assigned to teams</td>
<td>• managing their own emotions, demonstrating empathy and sensitivity to others</td>
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<tr>
<td>• being aware of how their actions can affect others</td>
<td>• recognising and respecting other people’s feelings and ideas</td>
<td>• showing sensitivity to other’s feelings and being willing to challenge poor behaviour in others, if necessary</td>
<td>• evaluating and changing their approach in group work if necessary</td>
<td>• comparing different ways of working to justify an approach when working in a group</td>
</tr>
<tr>
<td>• learning to use words to suit different purposes.</td>
<td>• adapting their language and actions to suit different situations.</td>
<td>• sharing, explaining and justifying their views and beginning to use language to influence others.</td>
<td>• listening to other points of view and taking part in agreeing through compromise.</td>
<td>• listening to other people’s views and reasoning in order to influence an acceptable outcome.</td>
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</table>
**Leading**

Leading is the ability to have ownership over a task, to be able to lead others by inspiring them with a clear vision, motivating and influencing others to complete tasks.

The ability to lead can include:

- **Inspiring others:** The ability to energise and create a sense of direction, purpose, excitement and momentum
- **Influencing:** Working to gain the agreement of others to a particular course of action
- **Motivating others:** Encouraging others to achieve goals, accomplish tasks, and complete objectives
- **Developing others:** The ability to coach and constructively review the work of others to improve and advance their skills, knowledge and performance level
- **Change catalyst:** Having the ability to ignite change

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</tr>
</thead>
</table>
| • listening to other people's ideas and positively influencing and motivating others during play and learning  
  • identifying and justifying their own course of action  
  • being confident in different situations/contexts  
  • making suggestions in group play. | • working with a group to apply ideas to create solutions to problems, responding to challenges and thinking outside the box  
  • showing an understanding of different roles during group work and being happy to take on different roles  
  • asking questions and generating as many ideas as possible, sharing ideas with friends and teachers/adults  
  • recognising and respecting other people's feelings and ideas. | • learning and building on other people's ideas and suggesting solutions during group work  
  • helping to lead a group towards an agreed purpose or goal through listening, discussion and collaboration  
  • supporting others to participate through verbal and non-verbal cues  
  • using a variety of research tools to deepen understanding and knowledge in order to make suggestions  
  • working through discussion, supporting others to reach agreements. | • taking the lead in group work, seeing opportunities in mistakes and failures to explore how to find solutions  
  • taking the lead in a group situation and ensuring that the group has a clear direction and purpose  
  • being aware of their own responsibilities and co-ordinating their activities with others during group work  
  • combining research tools with use of questioning, and presenting ideas in a logical way to others  
  • giving and responding to feedback from peers and adults, and being able to reach agreement through compromise. | • actively taking the lead, demonstrating initiative, and motivating others in order to complete an activity  
  • not only taking responsibility for their own actions but also ensuring that others in the group understand their responsibilities and are able to complete the task  
  • combining research tools with use of in-depth questioning and being able to lead a discussion regarding pros and cons of the information  
  • discussing logically, sharing their thoughts and opinions when giving and responding to feedback. |
## Curiosity

Curiosity is the desire to know or learn something in order to inspire new ideas and concepts. Using research skills like observation, questioning, information-sourcing and problem recognition will support us to understand, break down and find the root cause of a problem or opportunity in order to identify alternative solutions.

The ability to be curious incorporates:
- **Observation**: The ability to notice behaviour or information and register it as being significant
- **Questioning**: The ability to ask questions in order to increase understanding about a subject or experience
- **Information-sourcing**: The ability to filter resources and information to find information on an issue or topic
- **Problem recognition**: The acknowledgement and definition of a problem

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<tbody>
<tr>
<td>• showing excitement, enjoying the unexpected, the unusual and surprise in learning</td>
<td>• approaching new tasks and challenges with interest and enthusiasm</td>
<td>• being curious about the unfamiliar and unexpected</td>
<td>• formulating and experimenting to explore unfamiliar problems and new ideas and challenges</td>
<td>• transferring creative processes to other situations and exploring and refining multiple options</td>
</tr>
<tr>
<td>• asking lots of questions about what they are learning</td>
<td>• asking and answering questions to deepen understanding</td>
<td>• posing relevant questions to develop their understanding</td>
<td>• choosing a blend of subjects and information that enables them to pursue their interests both in and out of school</td>
<td>• asking questions and thinking laterally, in order to suggest and test multiple theories</td>
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<td>• observing and asking questions about the world around them</td>
<td>• listening to and exploring other people's stories</td>
<td>• actively building on their own and other's ideas and experiences to solve problems and develop understanding</td>
<td>• asking questions and using creativity skills to think laterally in a range of contexts</td>
<td>• combining information from different sources to develop new ideas and solutions</td>
</tr>
<tr>
<td>• using sources of information such as books, digital technologies, family and peers to find relevant information</td>
<td>• showing interest and asking questions about the wider world</td>
<td>• constructively challenging ideas that are presented independently using a range of sources of information to form and justify opinions</td>
<td>• listening carefully and valuing other's opinions and ideas, and using these to develop their own thinking</td>
<td>• seeking out new methods of research and wider ranges of information sources to increase their understanding of a subject in any given context, being interested in exploring and discussing other people's opinions</td>
</tr>
<tr>
<td>• carrying out self-directed learning and recognising and resolving related problems.</td>
<td>• asking questions and generating ideas by combining information and learning</td>
<td>• using research skills to find information that increases understanding and enjoyment when learning at school and home.</td>
<td>• showing an understanding of whether the source of information is reliable or not and giving reasons why.</td>
<td>• in any given context, being interested in exploring and discussing other people's opinions.</td>
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## Creativity

Creativity is the ability to imagine and think of new ways of addressing problems, answering questions or expressing meaning. We should see creativity in its broadest sense, not just related to art, drama or music, but using our imagination to develop the ability to visualise solutions and to support more effective learning.

The ability to be creative can include:
- **Imagination**: The ability to explore ideas of things that are not in our present environment, or perhaps not even real
- **Idea generation**: Proficiency at thinking and coming up with solutions and responses beyond that which is routine or rule-based
- **Visualising**: Translating information and thought into accessible expressions, readable and recognisable images
- **Maker mentality**: The ability to explore through tinkering and making, to arrive at new ideas and solutions

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<th>Learners show creativity in Senior Phase by:</th>
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<tbody>
<tr>
<td>• expressing themselves through different types of play such as mark making, role play, making things, tinkering with objects, singing and dancing</td>
<td>• listening and sharing ideas and experiences, and showing curiosity when approaching new tasks</td>
<td>• posing interesting questions that do not have straightforward answers</td>
<td>• experimenting with ideas and questions</td>
<td>• thinking creatively when approaching novel situations, drawing on previous experiences and testing new ideas</td>
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<td>• being willing to take on new challenges</td>
<td>• experimenting with and investigating real life issues</td>
<td>• beginning to understand the value of their own judgements and the merit of their own work</td>
<td>• thinking laterally and applying their creativity skills in a wide range of contexts</td>
<td>• using their skills and knowledge in a wide range of work and other contexts</td>
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<td>• engaging well in creative play with friends, for pleasure and as a form of creative expression</td>
<td>• creating objects/items in response to a challenge or interest using a range of resources including digital technologies</td>
<td>• creating and designing solutions to a problem independently and collaboratively as part of a wider group</td>
<td>• experimenting with different designs and actions to make ideas real</td>
<td>• demonstrating initiative, persistence and resilience in order to create solutions</td>
</tr>
<tr>
<td>• asking questions about the wider world.</td>
<td>• working on their own, or with a group, to apply ideas to create solutions to problems and challenges by thinking outside the box</td>
<td>• understanding that mistakes and failures can lead to solutions to problems</td>
<td>• developing opportunities from mistakes and failures to create solutions and valuing the unexpected or the surprising</td>
<td>• collaborating to create solutions to problems</td>
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<tr>
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<td>• creating and planning next steps of an action, identifying the when, what and how in response to a challenge.</td>
<td>• learning from, and building on, other people’s ideas and experiences.</td>
<td>• making new connections between ideas and information both in school and out of school.</td>
<td>• researching productively, making good use of their skills and knowledge to make choices about learning, pathways and career options.</td>
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**Sense-making**

Sense-making is the ability to make sense of information, to solve complex problems, to determine the deeper meaning or significance of what is being expressed and to recognise wider themes and patterns in information or solutions.

The ability to make sense of information incorporates:

- **Pattern recognition**: The process of classifying information into objects or classes based on key features
- **Holistic thinking**: The ability to see the big picture and understand subtle nuances of complex situations
- **Synthesis**: The process of organising, manipulating, pruning and filtering gathered data into cohesive structures for information building
- **Opportunity recognition**: The ability to identify areas of opportunity for innovation
- **Analysis**: A systematic examination and evaluation of data or information by breaking it into its component parts to uncover their interrelationships

<table>
<thead>
<tr>
<th>Learners show sense-making at Early Level by:</th>
<th>Learners show sense-making at First Level by:</th>
<th>Learners show sense-making at Second Level by:</th>
<th>Learners show sense-making at Third/Fourth Level by:</th>
<th>Learners show sense-making in Senior Phase by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• recognising and describing visual and audio patterns and differences</td>
<td>• recognising patterns and anomalies and being able to make up their own patterns</td>
<td>• using creativity and knowledge of different subjects to contribute ideas</td>
<td>• experimenting with different ideas and questions to improve understanding</td>
<td>• regularly seeking out texts or other relevant sources to inform thinking</td>
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<td>• recognising problems and talking about solutions</td>
<td>• identifying problems and enjoying finding solutions</td>
<td>• identifying problems and researching different ways to find solutions including using online tools</td>
<td>• selecting texts or other relevant sources of information regularly for enjoyment and interest</td>
<td>• confidently presenting ideas or information in a way that sustains a point of view with relevant supporting evidence</td>
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<tr>
<td>• asking and answering questions in relation to stories, play and learning in relation to themselves, families and friends</td>
<td>• recalling facts, opinions and information to help inform what they know and understand</td>
<td>• asking, researching and answering questions about the world, extending their own world map</td>
<td>• examining different options and using reasoned argument to express opinions and justify answers</td>
<td>• explaining how well a text or information source meets requirements with appropriate justification</td>
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<tr>
<td>• listening and understanding what is being said in the context of play, stories and real-life events</td>
<td>• showing understanding by organising, summarising and recalling facts</td>
<td>• using memory strategies to deepen understanding and comprehension</td>
<td>• evaluating the appropriateness of information or resources, showing increasing critical ability</td>
<td>• selecting and using appropriate resources to enhance their ideas and communicate effectively to an audience</td>
</tr>
<tr>
<td>• identifying and naming objects or events as the same or different, and sorting objects into groups.</td>
<td>• identifying similarities, making simple comparisons and connections</td>
<td>• identifying and ordering patterns and relationships through a range of strategies such as grouping, classifying and/or comparing and contrasting</td>
<td>• organising their thinking and demonstrating structure to present ideas in a logical order.</td>
<td>• providing different options based on reasoned and complex judgement and being able to express opinions using relevant supporting evidence.</td>
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</table>
## Critical thinking

Critical thinking is the ability to process, analyse and evaluate information to solve problems, or understand a situation and make decisions in a variety of contexts.

The ability to solve complex problems can include:
- **Deconstruction**: Breaking down a complex problem or system into smaller, more manageable parts before developing a new way of addressing the problem
- **Logical thinking**: The ability to identify, analyse and evaluate situations, ideas and information in order to formulate responses to problems
- **Judgement**: The act or process of forming an opinion after careful thought
- **Computational thinking**: The ability to translate vast amounts of data into abstract concepts and to understand data-based reasoning

### Learners show critical thinking at Early Level by:
- working with a focus, asking and responding to questions to clarify what they are doing
- making simple predictions and seeing possibilities
- asking different types of questions
- summarising and reflecting on their learning
- using materials from their environment and coming up with their own ideas on how to solve problems.

### Learners show critical thinking at First Level by:
- asking focused questions to clarify tasks and what needs to be done to plan and to set goals
- beginning to test predictions and look for evidence
- being systematic and working through the stages of a task
- recognising the difference between why, what, where when, and how questions
- explaining their methods and opinions when evaluating work, and beginning to justify their choices and actions
- applying strategies to help solve problems in a variety of contexts including real-life, learning and play.

### Learners show critical thinking at Second Level by:
- using different types of questions systematically and with purpose
- making and testing predictions, examining evidence and making links between possible causes and effects
- examining options when working through a task and weighing up the pros and cons of different approaches
- explaining methods, opinions and conclusions whilst understanding more than one point of view
- selecting the most appropriate strategy to solve a problem and complete a task.

### Learners show critical thinking at Third/Fourth Level by:
- explaining processes, concepts or ideas confidently, and being able to explain links between possible causes and effects
- identifying and raising issues, drawing conclusions and summarising their findings
- examining the pros and cons of a decision, predicting likely consequences and evaluating the outcomes from a range of perspectives
- identifying an appropriate strategy to solve complex problems in order to complete tasks.

### Learners show critical thinking in Senior Phase by:
- explaining complex processes or concepts with relevant supporting detail and evidence and can confidently justify their reasoning
- presenting complex ideas or issues in an appropriate way to different audiences
- posing questions about the reliability of evidence and the consequences for reaching conclusions
- presenting rational opinions and conclusions based on a combination of their own and other’s point of view
- identifying and evaluating complex problem solving strategies demonstrating to others their process for reaching that conclusion in a logical way.