

Subject Art & DT

Year 1
<u>Autumn 1 opportunities</u> Grace Hopper (1906–1992) – Computer scientist; while not a mechanical engineer, she helped shape modern interfaces where sliders and controls later became standard in software.
<u>Autumn 2 opportunities</u> Iwan Tirta (1935–2010, Indonesia) – Internationally renowned Indonesian batik designer whose works blended traditional wax resist methods with contemporary design.

Year 2
<u>Autumn 1 opportunities</u> Issey Miyake (1938–2022) – Japanese fashion designer, pioneer in textile innovation (pleats, new fabrics, and tech-fabric blends).
<u>Autumn 2 opportunities</u> Wassily Kandinsky (1866–1944, Russia/Germany) – Used colour theory to explore spirituality and emotion in abstract art. Sonia Delaunay (1885–1979, Ukraine/France) – Co-founder of the Orphism movement, celebrated for vibrant, rhythmic colour contrasts. Diego Rivera (1886–1957, Mexico) – Muralist who used strong, symbolic colours to reflect Mexican culture and history.

Year 3
<u>Autumn 1 opportunities</u> Archimedes (c. 287–212 BCE, Greece) – The most famous “lever” thinker, known for saying “ <i>Give me a place to stand and I will move the Earth.</i> ” He formalized the mathematics of levers and mechanical advantage.
<u>Autumn 2 opportunities</u> Lotte Reiniger (1899–1981, Germany) – Created the first feature-length animated film (<i>The Adventures of Prince Achmed</i> , 1926) using moving silhouette cut-outs.

Ōten Shimokawa (1892–1973, Japan) – One of the founders of Japanese animation (anime), drawing directly onto film.

Wan Laiming (1900–1997, China) – Pioneer of Chinese animation; created *Princess Iron Fan* (1941).

Year 4

Autumn 1 opportunities

Galileo Galilei (1564–1642, Italy)

Studied air pressure and vacuums, laying groundwork for pneumatic science.

Autumn 2 opportunities

Faith Ringgold (b. 1930, USA) – Painter, author, and illustrator; best known for her story quilts and children’s books that combine text and illustration, often telling African American stories.

Year 5

Autumn 1 opportunities

Alice Waters (USA, 1944–) – Chef and activist, founder of *Chez Panisse*, championed the farm-to-table movement and seasonal eating, celebrating local food culture

Autumn 2 opportunities

leoh Ming Pei (1917–2019, China/USA) – Architect of iconic buildings like the Louvre Pyramid; produced elegant and precise architectural drawings combining geometry and aesthetics.

Year 6

Autumn 1 opportunities

Archimedes (c. 287–212 BCE, Greece) – Famous for designing compound pulleys and explaining how they could let one person lift enormous weights.

Autumn 2 opportunities

Pablo Picasso (1881–1973, Spain/France) – Father of Cubism; created many still life drawings breaking objects into geometric forms.

Georges Braque (1882–1963, France) – Co-founder of Cubism; focused heavily on still lifes with fragmented perspectives.

Emilio Pettoruti (1892–1971, Argentina) – Modernist painter whose still lifes incorporated Cubist fragmentation and bold colors.

Wifredo Lam (1902–1982, Cuba) – Combined Cubist form with Afro-Cuban motifs; some still life works show geometric abstraction and symbolic elements.