1	Esports as a STEM Program
2 3	Discussion Paper
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5	Background
6	Esports is a growing field of competition that combines science, technology, engineering, and
7	math (STEM) with many of the traditional benefits of organized sports. The United States
8	esports industry is worth more than \$1 billion dollars and is rapidly gaining a mainstream
9	following. Colleges and universities are offering scholarships to esports athletes, and new careers
10	related to professional gaming (either in professional esports leagues or through various
11	streaming platforms) are becoming increasingly prominent.
12	The STEM learning component of esports gives youth an opportunity to study computer
13	hardware and software, digital interface and user interface programming, and programming and
14	design concepts for digital games. Additionally, the benefits of participating in esports include
15	collaboration, communication, creativity, as well as strategic and analytical thinking. Among
16	these benefits, esports helps participants foster self-confidence, cultivate teamwork, and build
17	problem-solving and critical soft skills.
18	Harvard Business Review states that by 2024, as many as 50 percent of jobs will likely be
19	automated, so employers will seek candidates who are able to learn adaptively, make good
20	decisions, and work well with others. Therefore, students who practice soft skills by playing
21	esports may also develop important competitive advantages that will benefit their future
22	academic and professional careers.
23	Various curricula exist to promote relevant, modern workforce skills development through an
24	esports format that may be more attractive to youth who are not interested in more conventional
25	training methods. Increasing access to educational opportunities and approaches to playing
26	esports would offer youth a gateway to careers in game design and development, coding, IT,
27	engineering, and web development.
28	Recommendations
29	On September 13, 2022, the Texas Workforce Commission's (TWC's) three-member
30	Commission approved \$500,000 in Temporary Assistance for Needy Families (TANF) funding
31	for a one-year esports pilot program. In response to the solicitation, TWC received twelve
32	applications and funded three grant awards. Based on the interest TWC received, staff

- 33 recommend including this initiative into the combined youth initiatives budget line item and
- 34 consider the following options:
 - Continue the current pilot program, setting aside \$500,000 in TANF statewide funding for a second project (contingent on the performance of the pilot program).

- Devote up to \$300,000 for research and analysis of esports and the potential future
 impact on employers and the economy.
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4 **Decision Point**

- 5 Staff seeks direction on using \$500,000 in TANF statewide funding to make esports programs
- 6 more available to Texas youth and up to \$300,000 for research and analysis of the impact of
- 7 esports on employment and career opportunities in collaboration with the Office of the
- 8 Governor's Economic Development & Tourism Division (Film, Music, Gaming).